CONSTRUCTION NEWS

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file and may be seen at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
1- 8	*Water pipes, Providence, R.I. (S.)	12-31
1- 9	Galleries, Wash., D. C. (Buildings) (S.)	12-17
1- 9	Storehouse, Key West, Fla. (S.)	12-24
1-15	*Dredging, Mobile, Ala. (S.)	12-17
1-16	Building, New York, N. Y. (S.)	12-31
1-23	*Dredging, Bridgeport, Conn. (S.)	12-24
1-25	*W.-wks., Daytona, Fla. (P. & S.)	12-31
1-30	Elevator, Vallejo, Cal. (S.)	1- 7
2- 5	*Condenser, etc., Key West, Fla. (S.)	1- 7

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

1- 9	Lighting fixtures, Frankfort, Ky.	12-31
1-12	Franchise, Napa, Cal.	12-31
1-15	Electric apparatus, New York	1- 7
1-19	Power plant, East Point, Ga.	12-31
2- 5	Lighting, St. Louis, Mo.	1- 7

BRIDGES.

1- 8	Bridge, Salt Lake City, Utah	12-31
1- 8	Bridges, etc., Cincinnati, Ohio	12-17
1- 8	Bridges, Elkins, W. Va.	1- 7
1- 9	Culvert, East Cleveland, Ohio	1- 7
1- 9	Bridge, Sulphur, Okla	12-24
1-11	Bridge repairs, Minneapolis, Minn.	12-17
1-11	Bridges, Newark, Ohio	12-17
1-12	Bridges, Geneva, Neb.	12-17
1-12	*Bridge, Augusta, Ga.	12-17
1-12	Bridge, Rensselaer, Ind.	10-29
1-12	Bridges, Brookings, S. Dak.	1- 7
1-13	Bridges, York, Neb.	12-24
1-13	Bridges, Beaver City, Neb.	12-31
1-14	Bridge, Urbana, Ill.	12-31
1-15	Bridge, St. Louis, Mo.	12-31
1-15	Bridge, Chicago, Ill.	12-31
1-16	Superstructure, etc., Dayton, O.	12-31
1-18	Bridge repair, Youngstown, Ohio	1- 7
1-20	Bridge repair, Toledo, Ohio	1- 7
1-29	Bridges, etc., Cincinnati, Ohio	1- 7
1-30	*Bridge, Beaufort, N. C.	1- 7
3- 4	Bridges, Paris, Ark.	12-17

BUILDINGS.

1- 8	Dormitory, Stillwater, Okla.	12-17
1- 9	*Post-office, Murfreesboro, Tenn.	12-10
1- 9	Stone work, Washington, D. C.	12-24
1- 9	Storehouse, Key West, Fla.	12-24
1- 9	Galleries, Wash., D. C.	12-17
1- 9	Refrigerating plant, Porto Rico. (U. S. Poss.)	1- 7
1-11	Post-office, Gainesville, Fla.	12-10
1-11	Factory, Rochester, N. Y. (Mfg. Pl.)	1- 7
1-12	School, Dedham, Mass.	1- 7
1-12	*Post-office, Warren, Ohio	12-17
1-12	Quarters, Ft. Rosecrans, Cal.	12-31
1-12	Field house, Chicago, Ill.	12-31
1-13	Quarters, etc., Ft. Stevens, Ore.	12-31
1-13	Church, Atlanta, Ga.	1- 7
1-14	Bank, Nashville, Tenn.	1- 7
1-14	Plans, Milwaukee, Wis.	12- 3
1-14	*Furnishing, Wilkesbarre, Pa.	12-31
1-15	Asylum, St. Louis, Mo.	12-10
1-15	Building, Mt. Weather, Va.	1- 7
1-16	Building, New York	12-31
1-18	*Hay-shed, Ft. Meade, S. Dak.	12-17
1-19	Buildings, San Jose, Cal.	12-31
1-20	School, Wilkinsburg, Pa.	12-24
1-23	Quarters, etc., Portland, Me.	12-24
1-23	Post-office, Anderson, S. C.	12-24
1-26	Post-office, Logan, Utah	12-24
1-30	Elevator, Vallejo, Cal.	1- 7
1-30	Buildings, New London, Conn.	1- 7
2- 1	Hospital, Los Angeles, Cal.	1- 7
2- 1	*Post-office, Fayetteville, Ark.	12-24
2- 4	*Post-office, San Antonio, Tex.	12-31
2- 8	Post-office, Clarinda, Ia.	1- 7
2-10	*Quarters, New London, Conn.	12- 3

WATER-WORKS.

1- 8	Water-works material, Minneapolis, Minn.	12-31
1- 8	Pipe line, Salt Lake City, Utah.	12-31
1- 8	*Water pipes, Providence, R. I.	12-31
1-12	Water-works, Connersville, Ind.	12- 3
1-14	Pipe, Kansas City, Mo.	1- 7
1-15	*Air compressor, Dallas, Tex.	1- 7
1-15	*Cement, Portland, Ore.	11-26
1-16	Water main, Roanoke, Va.	1- 7
1-18	Water-works, Moundridge, Kan.	1- 7
1-18	*Water tank, Wellington, Kan.	12-31
1-19	Water-works equip., East Point, Ga.	12-31
1-19	*Water-works material, Seymour, Tex.	1- 7
1-20	Water-works, Augusta, Kan.	1- 7
1-25	*Water-works, Daytona, Fla.	12-31
2- 1	Well, Denison, Iowa	12-31
2- 2	Pump, Richland Center, Wis.	1- 7
2- 5	*Condenser, Key West, Fla.	1- 7
2-22	*Pump, Winnipeg, Man.	12- 3

SEWERS.

1- 8	Sewers, Salt Lake City, Utah.	12-31
1- 8	Sewers, Wooster, Ohio.	12-31
1-11	Sewer system, Park Station, Tenn.	1- 7
1-12	Sewer, New York, N. Y.	1- 7
1-13	Sewage disposal plant, Polk, Pa.	12-17
1-13	Sewer, San Francisco, Cal.	1- 7
1-14	*Sewer system, etc., Danville, Pa.	12-17
1-15	Sewer, Toronto, Ont.	1- 7
1-18	Sewer, New York	1- 7
1-19	Sewerage, East Point, Ga.	12-31
1-22	Sewer, Louisville, Ky.	1- 7
2- 1	Vitrified pipe, etc., Leavenworth, Kan	1- 7
2-15	Sewer, Great Falls, Mont.	1- 7
3- 8	Sewer, Grundy Center, Iowa	1- 7

STREETS AND ROADS.

1- 9	Paving cement, Detroit, Mich.	1- 7
1-11	Street impvt., Jersey City, N. J.	1- 7
1-11	Sidewalks, etc., Detroit, Mich.	1- 7
1-11	Road, Bedford, Ind.	12-31
1-12	Paving, Benwood, W. Va.	1- 7
1-12	Paving, Alton, Ill.	1- 7
1-12	Road impvt., Rockville, Md.	12-24
1-15	Road, La Fayette, Ind.	12-31
1-16	Grading, Cleveland, Ohio	12-31
1-16	Roads, Marion, Ind.	1- 7
1-18	Paving, Emporia, Kan.	1- 7
1-18	Paving, etc., Naperville, Ill.	1- 7
1-18	Road, Indianapolis, Ind.	12-31
1-18	*Sidewalks, Pensacola, Fla.	12-24
1-19	Paving, Huntsville, Ala.	1- 7
1-20	Roads, Marion, Ind.	1- 7
1-20	Roads, etc., Marion, Ind.	1- 7
1-22	Street impvt., Cincinnati, Ohio.	12-31
1-25	Road machinery, North Vancouver, B. C.	12-31
2- 1	Paving, Appleton, Wis.	12-24
2- 1	*Pavement, Olympia, Wash.	12-24
2- 3	Grading, etc., Cleveland, Ohio.	1- 7
2-12	Road, Fowler, Ind.	1- 7

MISCELLANEOUS.

1- 7	Traveling cranes, Grand Rapids, Mich.	1- 7
1- 9	Ditch, Lake Charles, La.	1- 7
1- 9	Ditch, Anoka, Minn.	12-10
1- 9	Ditch, Delphi, Ind.	12-31
1-11	Cement, Detroit, Mich.	1- 7
1-11	Ry. supplies, Panama	1- 7
1-12	Flanging machines, Wash., D. C.	12-24
1-12	Fencing, New York, N. Y.	12-24
1-15	Tile ditch, Jefferson, Iowa	12-24
1-15	*Cement, Portland, Ore.	11-26
1-15	Cruiser, Ottawa, Ont.	12- 3
1-15	*Dredging, Mobile, Ala.	12-17
1-15	Ditch, Ft. Dodge, Ia.	1- 7
1-15	Drain, Urbana, Ill.	1- 7
1-16	Canal supplies, St. Catharines, Ont.	1- 7
1-16	Ditch, Goshen, Ind.	12-31
1-18	Cement, Chicago, Ill.	12-31
1-18	Ditch, Des Moines, Ia.	1- 7
1-19	Dredge, Toronto, Ont.	1- 7
1-20	*Incineration plant, Boston, Mass.	12-24
1-21	Tugboat, Detroit, Mich.	12-31
1-23	*Dredging, Bridgeport, Conn.	12-24
1-25	Cement, Plymouth, Mass.	1- 7
1-29	Cement, Ottawa, Ont.	1- 7
2- 8	*Fence, Prescott, Ariz.	1- 7
2-10	Ditch, Logan, Ia.	1- 7
2-13	Drydock, Hawaii	12-17

FOREIGN.

1-19	Ry. supplies, South Australia	12-31
1-20	Railway, Roumania	12-31
1-24	Electric railway, Russia	12-31
2-15	Electric railway, Algeria	12-31
3- 1	Floating dock, Egypt	12-31

CIVIL SERVICE.

1-13	Junior physicist, Washington, D. C.	12-17
1-13	Chemist, Dover, N. J.	12-17
1-13	Electrician's helper, Washington, D. C.	12-17
1-13	Metallographist, Watertown, Mass	12-17
1-18	Inspector's Asst., Wash., D. C.	12-31
1-20	City Engr., Calgary, Can.	1- 7
1-23	Gas meter Inspect., New York	12-31
1-23	Draftsman, Albany, N. Y.	12-31
1-25	Bacteriologist, New York, N. Y.	12-31
2- 3	Inspector Hulls, Galveston, Tex.	1- 7
2- 3	Civil & Hyd. Engr., Wash., D. C.	1- 7

RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

ATCHISON, TOPEKA & SANTA FE.—We are informed officially that grading has been resumed on the line from Center to Zuber, Tex., 23.21 miles, and that this section will be built in 1909. The company also reports 51.86 miles of track laid during 1908, as follows: (1) Northwestern Pacific Ry., 1.55 miles south from Wendeling, Cal.; (2) Arkansas Valley Ry., 17.58 miles in Colorado; (3) Eastern Ry. of New Mexico, 6.90 miles; (4) Jasper & Eastern Ry., 0.97 mile, in Louisiana; (5) Southern Kansas of Texas Ry., 24.86 miles, from Pan Handle to Amarillo, Tex. W. B. Storey, Jr., Chicago, is Ch. Engr.

BUFFALO CREEK & GAULEY.—Company will build its proposed extension from Dundon, W. Va., to Huttonsville, W. Va., by force account, it is stated. The projected length is 110 miles; the route is from Dundon via Cressmont, Hookersville, Craigsville and Camden. Surveys were made in 1907. V. C. McCormick, Harrisburg, Pa., is Pres. and J. G. Bradley, Clay, W. Va., is Supt. Noted on Dec. 7.

BUFFALO CONNECTING RY.—This company has been incorporated with a capital stock of $4,000,000 to build a terminal railway and outer belt line, 30 miles in length, around the city of Buffalo, N. Y. It will encircle the city from a point on Lake Erie south of the Lackawanna Steel Co.'s plant at South Buffalo, where a terminal with wharves and elevators will be built, to a connection with the International bridge at North Buffalo, with a branch to Tonawanda, N. Y., paralleling the Niagara River, about 3,000 ft. inland from the river. The company was organized to succeed the Buffalo, Lake Erie & Niagara Ry. Co., whose application for franchise granted by the former Board of Railroad Commissioners for the State of New York about two years ago was recently reversed and denied by appellate division of the New York State Courts. C. C. Conkling is Engr., 798 Ellicott Square Bldg., Buffalo.

CANADIAN NORTHERN ONTARIO.—It is announced that application will be made at the next session of the Canadian Parliament for authority to build lines of railway from Nipigon Bay to the National Transcontinental Railway, with branch lines to the northern and southern ends of Lake Nipigon; from Vermilion Bay to the point where the National Transcontinental Railway crosses the Abitibi River, and thence to the south end of Lake Temiskaming. Application will also be made for an extension of time for the commencement and completion of several of the company's authorized lines in Ontario as follows: From Washago to Kincardine; Arnprior to Gananoque; Pembroke to Cobourg; Pickering to Owen Sound; Niagara to Goderich; Port Dover to Owen Sound; Hawkesbury to Toronto; Parry Sound to North Bay; French River to Batchewana, and Toronto to Ottawa.

CHICAGO, MILWAUKEE & ST. PAUL.—See Chicago, Milwaukee & Puget Sound Ry.

CHICAGO, MILWAUKEE & PUGET SOUND.—The stockholders of the Chicago, Milwaukee & St. Paul Ry. Co., of Washington, it is announced, at the recent meeting in Seattle, authorized an increase of the capital stock from $3,000,000 to $100,000,000 and voted to change the corporate name to the Chicago, Milwaukee & Puget Sound Ry. Co., the corporation which is to control the St. Paul's Pacific Coast extension. The entire capital stock of $100,000,000 is to be held in the treasury of the parent company, the Chicago, Milwaukee & St. Paul Ry. Co. proper, which is a Wisconsin corporation, and none of it, it is stated, is at any time to be offered for sale.

CLINTON & OKLAHOMA WESTERN.—We are officially advised that company plans to begin construction work about Jan. 10th. Work is partly contracted for. Company will do grading with large force. C. C. Godman, Pres.; T. J. Nance, Vice-Pres.; C. H. Lamb, Secy., Clinton, Okla. This railway will be built from Clinton northwest to Texas state line in vicinity of Canadian, Tex., and will be about 125 miles long. Right-of-way and capital are secured. Survey is partly made. Noted on Dec. 10 and Nov. 19, 1908.

COLUMBUS & SOUTHERN.—Company will construct the proposed extension from South Bloomingville to Hamden Junction, Ohio, with its own forces. The new line will be about 25 miles long. I. F. Anderson, Laurelville, Ohio, is Gen. Supt.

ERIE.—See Sharon Ry.

GRAND TRUNK PACIFIC.—At the present time construction is in progress on 3,000 miles of the 3,600 to be built, it is stated. The railroad company has spent $20,000,000 to date, and the government $41,000,000. By Sept., 1909, the company will have the line in operation between Fort William, Ont., and Edmonton, Alta., a distance of 1,200 miles.

INDIAN CREEK VALLEY.—We are officially advised that this company is building from Indian Creek to Jones Mills, Pa., 20 miles, with its own forces. Surveys are made, right-of-way and capital are secured. No contracts will be let. Chas. F. Hood, Connellsville, Pa., is Pres. Noted on Dec. 17.

KANSAS SOUTHERN & GULF.—Company has reorganized and elected the following officers: Pres., P. E. Stanley, Chicago; Vice-Pres., John A. Fletcher, Chicago; Gen. Engr., William C. Ross, Westmoreland, Kan. E. C. Simmons, Westmoreland, Kan., is Ch. Engr. Company plans to construct at once an extension of 22 miles from Westmoreland, Kan., to Manhattan. Bonds to the amount of $22,000 were voted by Pottawatomie Township, in which Manhattan is located, on Dec. 15. Nearly all the right-of-way has been secured and surveys made.

KENTUCKY.—Edwards, Roney & Co., of Providence, Ky., who have 40,000 acres of coal rights in Hopkins County, according to the "Manufacturers' Record," propose to build a railroad 20 miles long from Providence to Dawson, Ky., and desire to interest capital in the proposition.

KINGSTON R. R.—We are officially informed that this company is doing its own construction. The line will be 13 miles long running east from Kingston, La. Surveys are made and right-of-way secured. Capital has been subscribed in cash. W. R. Bradford is Pres., Shreveport, La. As noted on Dec. 10, "eight miles of this line have been completed from Kingston, La., on the Kansas City Southern Railroad, eastward through timber lands, and the company is building five miles further probably to connect at Westdale with the Texas & Pacific Railway."

NORTHWESTERN PACIFIC.—Surveys are completed for the projected line between Willits and Shively, Cal., 110 miles. Date has not been decided for letting contracts. A. H. Payson is Pres. and W. C. Edes is Ch. Engr., Flood Bldg., San Francisco, Cal.

OHIO.—We are officially informed that bids were received by the Board of Public Service, Columbus, Ohio, on Dec. 30 for laying and ballasting railroad tracks adjacent to the Scioto River, Contract No. 5, Improved Garbage Disposal. Henry Maetzel, Ch. Engr Bd. Contract was awarded to WINCHELL & McDANIEL, Worthington, Ohio.

ONTARIO, NORTHERN & WESTERN.—Application will be made at the next session of the Canadian Parliament for an extension of the time for building the Ontario, Northern & Western Ry., from Wright, Que., north to Maniwaki, and thence to James Bay; also from a point on the company's main line to Lake Temiskaming and also such branch lines as may be necessary, provided that they do not exceed 30 miles in length, excepting for the purpose of connecting with other railways.

OREGON SHORT LINE.—We are officially advised that survey has been made for the proposed branch from Montpelier to Fair Haven or Garden City, Idaho, 22 miles. Right-of-way has not been secured nor date set for letting contracts. Wm. Ashton is Ch. Engr., Salt Lake City, Utah.

PENNSYLVANIA R. R.—Regarding the report that estimates for $5,000,000 worth of work along the main line of the Pennsylvania Railroad have been asked and that contracts will be let to include the damming of the Juniata River, etc., we are officially advised that "there is absolutely nothing in this report." Alex. C. Shand, Philadelphia, is Ch. Engr.

SHARON RY.—The annual meeting of the Sharon Railway Co. will be held in Sharon, Pa., on Jan. 11, at which time decisive and final action regarding construction and the improvement of the road will be taken. At the annual meeting last year, a bond issue was voted to provide for these improvements, but they were never placed under contract on account of the condition of the money market. The improvements will cost about $800,000, it is said, and will include the double-tracking of the road from Ferrona (South Sharon post-office), to Wheatland, a new roundhouse at Ferrona and the complete reconstruction of the road from Pymatuning (Transfer post-office) to New Castle. The road is leased to the Erie R. R. Co., and forms the connecting link for that line between Sharon and New Castle, Pa.

ST. MARY'S & WESTERN ONTARIO.—The Canadian Government has entered into a supplemental agreement regarding the subsidy contract for building a line between Woodstock, Ont., and Exeter, 45 miles. The original contract provided for a subsidy at the rate of $3,200 a mile. The act, in which aid for the building of railways is voted, provides that subsidies may be granted at that rate, where the cost of construction does not exceed $15,000 a mile, and may be increased to $6,400 a mile as cost of construction increases.

TILSONBURG, LAKE ERIE & PACIFIC.—Application will be made at the next session of the Canadian Parliament for an act extending the time for building the Tilsonburg, Lake Erie & Pacific from Ingersoll, Ont., passing through the counties of Oxford, Perth, Waterloo, Wellington, Dufferin, Grey and Simcoe, or any of them, to Collingwood, Ont.

ELECTRIC RAILWAYS.

PORTLAND, ME.—The Portland, Gray & Lewiston R. R. Co. plans to begin construction this spring. The line will connect Portland, Falmouth, Gray, New Gloucester and Lewiston. Survey is made and right-of-way secured. Headquarters, 165 Main St., Lewiston. Officers: E. W. Gross, Berlin, N. H., Pres.; J. D. Clifford, Lewiston, Vice-Pres.; Charles C. Benson, Lewiston, Treas.; J. A. Jones, Lewiston, is Ch. Engr.

NEW LONDON, CONN.—The New London & East Lyme Street Railway Co. has petitioned the Legislature for permission to increase its capitalization to $300,000 and to extend its lines through Niantic and Black Hall to the Connecticut River ferry; also from Crescent Beach to the village of Lyme. Fred P. Latimer is Secy., New London.

SENECA FALLS, N. Y.—The Town Board has granted a franchise to the Geneva, Waterloo, Seneca Falls & Cayuga Lake Traction Co. The right is given for a track from the east line of this village to the shore of Cayuga Lake along the highway. The line will connect Seneca Falls and Auburn. The present plans are for a bridge to cross Cayuga Lake, its western end to be located at a point 300 ft. north of the Bridgeport Park. Three openings in the bridge are to be made, one at both ends and one in the center. The bridge will be one mile and eight rods long, and at the Cayuga end will rise above the New York Central drawbridge and Cayuga Canal. This end of the bridge will terminate almost on a level with the highway in Cayuga Village. From the center of this village to the center of the city of Auburn the road will be twelve miles in length, according to the plans shown to the Town Board.

HUNTINGDON, PA.—The Juniata Valley Elec. St. Ry. Co. and Big Valley St. Ry. Co. plans to complete its lines this year. It will connect Huntingdon, Mount Union, Mill Creek, Allenville, Belleville and Reedsville, 30 miles. R. W. Jacobs is Pres. and Gen. Mgr. and J. Murray Africa is Ch. Engr., Huntingdon.

SOMERSET, PA.—The Somerset St. Ry. Co. will be chartered to construct and operate a street railway from Rockwood to Somerset. The applicants for the charter are: John A. Berkey, Frank B. Fluck, Clarence L. Shaver, James C. McSpadden, John C. Lowry, A. L. G. Hay and A. K. Miller.

BURLINGTON, N. C.—We are officially advised that general contract for building its line has been let by the Burgrahaw Interurban Co. to the INTERURBAN CO., 25 Board St., New York. The line will connect Burlington, Graham and Haw River, eight miles. J. W. Murray is Pres. and Junius H. Harden is Secy., at Burlington, N. C. Noted on Dec. 3.

FAIRBURN, GA.—We are officially informed that survey has been run by the Fairburn & Atlanta Ry. & Elec. Co. Company probably will award contracts some time this month. Right-of-way and capital for construction are secured. The road will be standard-gage, connecting Fairburn, Union City, Stonewall, Red Oak and College Park and will be approximately ten miles long. Capital stock, $100,000. Officers: W. T. Roberts, Fairburn, Pres.; W. A. McCurry, Fairburn, Vice-Pres.; J. H. Harris, Union City, Ga., Secy.; J. H. Langino, Fairburn, Treas. Frank Lederle, 509 Candler Bldg., Atlanta, is Engr. Previously noted.

GAINESVILLE, GA.—Hon. Wm. T. Newman, Judge of the United States Court, has issued an order foreclosing the mortgage on the Gainesville Electric Ry. held by the Knickerbocker Trust Co., of New York, trustee, and directing the sale of the entire property in front of the court-house in Gainesville, Hall County, on Feb. 20, unless the matters are otherwise adjusted in the meantime. W. A. Carlisle is Gen. Mgr., Gainesville.

UHRICHSVILLE, OHIO.—J. E. Tiffany, of Cadiz, Ohio, is running survey for the proposed Wheeling, Cadiz & Tuscarawas Traction Co.'s line which will connect Uhrichsville, Dennison, Franklin, Laceyville, Cadiz, New Athens, Harrisville, Colerain, Georgetown, Adena, Martins Ferry, Bridgeport, Ohio, and Wheeling, W. Va. It will be a standard-gage line, about 55 miles long. The power station and repair shops will be built at Cadiz. Power for lighting and other purposes will be furnished to manufacturing concerns along the route. Capital stock, authorized, $10,000. Officers: A. E. Townsend, Pres. and Gen. Mgr.; Robert P. Scott, Vice-Pres.; George W. Grissinger, Secy.; John E. Lacey, Treas., all of Cadiz, Ohio. Noted on Sept. 10.

BOWLING GREEN, OHIO.—The Lake Erie, Bowling Green & Napoleon Ry. Co., it is stated, will build a 6-mile extension this year to its system, from Bowling Green to Tontogany. E. H. McKnight is Gen. Mgr.

TOLEDO, OHIO.—The Ohio & Michigan Southern Co. has been incorporated in Michigan with an authorized capital stock of $17,000,000. This company will take over the property of the Toledo, Ann Arbor & Detroit R. R., which has partly completed an electric road between Toledo and Ann Arbor. It is said that the new company will complete this road as rapidly as possible. It is proposed to equip the road both for freight and passenger business. Headquarters, Toledo. Directors: Andrew E. Lee, Vermillion, S. Dak., Pres.; De Courcy F. Niles, Duluth, Minn., Vice-Pres.; William E. Niles, Sioux Falls, South Dak., Secy.-Treas. and Gen. Mgr. John O. Zabel, Toledo, Gen. Counsel, and N. A. Rees, Chicago, Ill. Curtis W. Steudel, Chicago, Ill., is Supt. of Construction.

WILMINGTON, OHIO.—The Cincinnati, Wilmington & Xenia Traction Co. probably will begin construction this year on its line which will extend from Cincinnati to Milford, Goshen, Blanchester, Wilmington, Sabina, Washington C.-H., Mount Sterling, Columbus and Xenia. It will be about 150 miles in length. The overhead trolley system will be adopted. The repair shops will be erected at Wilmington. Capital stock authorized, $50,000. K. H. Grantham is Acting Pres.; J. C. Linton, Secy. and Treas.; John N. Carswell, Gen. Mgr., all of Wilmington. Henry Rohwer, Wright Bldg., St. Louis, Mo., is Engr. Two power-houses will be erected.

BLUFFTON, IND.—The Bluffton, Berne & Celina Traction Co. has filed articles of incorporation with the Secretary of State. Capital stock, $50,000. It is the intention to construct and operate an electric railway from Bluffton, Ind., to Celina, Ohio, by way of Berne and other towns. The principal office will be in Bluffton. Incorporators: Robert Saurer, B. A. Batson and Adolph Schurg.

EVANSVILLE, IND.—Construction on the Evansville, Mount Carmel & Olney Traction line will be started when surveys are completed, it is said. It will run from Evansville, Ind., via Mount Carmel, to Olney, Ill. H. H. Von Hipple, Newburgh, Ind., is Ch. Engr.; Adam Knoph, Olney, Ill., is Pres., and E. Q. Lockyear, Evansville, Ind., is Secy. The railway will be about 70 miles long.

KOKOMO, IND.—C. C. McFann, of Kokomo, Pres. and Gen. Mgr. of the Kokomo Western R. R. Co., advises us that this company is now taking up the financing of this proposition and investigating the different equipment and material adapted to this work. Information and quotations on all materials required are requested by Mr. McFann. Right-of-way is secured and survey completed. Maps, profile, etc., are being prepared for an interurban line from Kokomo, Ind., to Burlington, Ind., a distance of 15 miles, opening up a large territory of rich and highly improved land. Burlington is 18 miles from Frankfort, 22 miles from Logansport and 15 miles from Kokomo. There will be one bridge, 150 ft. long, two 75-ft. spans. Grading will be very light except two miles. Company will use independent gasoline motor cars for passenger, baggage, express and mail, and gasoline locomotive for local and car load freight. Previously noted.

FREEPORT, ILL.—Surveys are under way by the Freeport Interurban Ry. Co. for its proposed line. It will be 36 miles long, extending from Freeport to South Freeport, Polo and Dixon. Owen T. Smith, Freeport, is Pres. Noted on Dec. 24.

CHICAGO, ILL.—It is announced that the Chicago, Fox Lake & Lake Geneva R. R. Co. plans to begin construction work in the spring on its proposed electric railway which is to link Chicago with Lake Geneva and the Fox Lake region. It is to be a standard-gage road, 70 miles in length, and will be operated by electricity. The overhead trolley system will be adopted. Capital stock, authorized, $2,000,000. Bonds, authorized, $2,000,000. Headquarters, 108 La Salle St., Chicago, Ill. Officers: George M. Seward is Pres.; M. B. Louis, Vice-Pres. and Gen. Mgr.; Charles E. Wise, Secy. and Treas.

HOLDREDGE, NEB.—Right-of-way is being secured and surveys made by the Western Central R. R. Co., which will build between Holdredge and Kearney, Neb., about 40 miles. T. E. Brady is Pres.; S. C. Nelson, Treas. and Gen. Mgr.; N. R. Denham is Ch. Engr., 600 Bee Bldg., Omaha, Neb. Noted on Sept. 17.

RAPID CITY, S. DAK.—The City Council has granted a street railway franchise to the Rapid City & Wyoming Ry. Co., covering the streets of that town generally. The line is to be several miles in length. Company is authorized to use either gasoline or electric motors for motive power. L. A. Richards is Pres.

OKLAHOMA CITY, OKLA.—Arrangements are being made by the Oklahoma City, Shawnee & El Reno Rapid Transit Co. for financing this project. Right-of-way is being secured. This line will be 70 miles in length and will extend from Oklahoma City to Spencer, Horrah, Choctaw, McCloud, Yukon, El Reno and a number of smaller towns. Overhead trolley will be used. Capital stock, $1,500,000. Officers: W. M. Sawyers, Pres.; J. A. Niblo, Vice-Pres.; C. A. Huber, Secy.; S. M. Niblo, Treas. Noted on June 14 and May 7.

HOOD RIVER, ORE.—We are officially advised that the Valley Electric Ry. Co. plans to build an electric line through the Hood River Valley with branches about 30 miles in length. Reconnaisance survey has been made and right-of-way partly secured. Capital has not been obtained yet. This proposition is in early stage of development. Preliminary and location surveys will be made in the spring.

GLOBE, ARIZ.—Petition has been presented to the Globe City Council by George W. P. Hunt, asking that a franchise be granted for an electric street railway through Globe.

ONTARIO, CAL.—The Ontario & San Antonio Heights Elec. R. R. Co. will build a 6-mile extension to Pomona, via Claremont. A. G. Balch is Gen. Mgr., 624 Pacific Electric Bldg., Los Angeles.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

LAWRENCE, MASS.—The Lawrence Gas Co. has been granted permission to erect and maintain transmission lines on Lowell, Cross, Essex, Broadway, Lawrence and Arlington Sts. for the distribution of electricity. H. H. Emmons is Pres.

WEST BOYLSTON, MASS.—The citizens have voted to have the streets of the town lighted by electricity, it is stated. The Marlboro Electric Light Co. has submitted a proposition to install a plant and light the town, or, should the town prefer to operate its own system, to furnish electrical energy for the same. In return for a 5-year contract the company offers to install a plant in the town and furnish 120 tungsten lamps of 40-c.-p. on a moonlight schedule until midnight for $18 per lamp per year, and to furnish five lamps free. The company also gives the town the privilege to purchase the plant at any time after completion by giving six months' notice at net cost plus 10 per cent. of the contractors' charges and 15 per cent. on the cost of labor. The cost for town equipment not to exceed $11,530 and the amount for 25 commercial customers not to exceed $50 each, making a total of $12,780. In case the town should prefer to own the plant from the start the Marlboro Electric Light Co. agrees to build the plant and to supply electricity at 2,300 volts for a term of five years at 5 cts. per KW-hr. The company agrees to have the plant installed and ready for operation by July 1, 1909, if awarded the contract. W. H. Emery, 53 Congress St., Boston, Mass., is Mgr.; C. S. Davis, Marlboro, Mass., is Supt.

WOODSTOCK, CONN.—The Putnam Light & Power Co. has petitioned the Legislature for an amendment to its charter, authorizing it to carry on business in Woodstock, Conn., and the erection of poles, etc., for that purpose. George A. Hammond is Pres.

UNIONVILLE, CONN.—The Union Electric Light & Power Co. has asked permission to sell and distribute gas for fuel and other purposes in the towns of Farmington, Avon, Canton and Burlington. C. G. Bill is Mgr.

NEW BRITAIN, CONN.—The New Britain Gas Light Co. will extend its mains into several streets in the southeast part of the city. H. T. Sloper is Secy.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. of Dept. Public Charities, foot of East 26th St., until 2.30 p. m., Jan. 15, for providing all the labor and materials required for the inspection and maintenance of electrical apparatus on Blackwell's Island, the Central Office, the Bureau of Dependent Adults and Morgue, Boro. of Manhattan.

Also for providing all the labor and materials required for the inspection and maintenance of electrical apparatus at the Kings County Hospital, Boro. of Brooklyn, and for providing all the labor and materials required for the inspection, maintenance and repairs to the elevators and motors, regulating devices and machinery on the base, with all devices thereto necessary to maintain such in operative condition at the Cumberland St. Hospital, Boro. of Brooklyn.

The following bids were received on Dec. 28 by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for installing electric equipment in new Public School No. 114, on James, Oak and Oliver Sts., Boro. of Manhattan: Cowden & DeYoung, 45 East 42d St., $13,893; E. J. Duggan, 1133 Broadway, $15,300;; Irving A. Bogart, $15,965; Commercial Construction Co., 114 East 28th St., $14,515; Pete & Powers, $15,467; A. Feldman Construction Co., Bible House, $14,840; T. F. Jackson, 592 Columbus Ave., $14,100.

SCHENECTADY, N. Y.—According to press reports, the Schenectady Power Co. will build a storage dam on Walloomsac Creek near Walloomsac. This dam will flood about 900 acres. The work will be begun early in the spring. As at the Johnsonville dam, a power house will be erected, and the power will be transmitted to Johnsonville and carried on the present tower line to this city. To construct this dam and the one on Nickmoesh Creek near Johnsonville it will require the greater part of next summer.

McKEESPORT, PA.—The MONONGAHELA LIGHT & POWER CO., of this city has been awarded the contract for lighting with electricity the new filtration plant and grounds at 3½ cts. per KW.-hour. The contract will run for a period of five years.

STOYESTOWN, PA.—The STOYESTOWN LIGHT, HEAT & POWER CO., of this place, has been awarded the contract for lighting the city with arc and incandescent lights for one year beginning Jan. 1. Daniel Long is Pres. of the company, which is a new one. The company will furnish light and power to residences and places of business.

ROCKINGHAM, N. C.—It is reported that the Rockingham Power Co., a $5,000,000 North Carolina power development corporation, is undergoing reorganization. The company was petitioned into a receivership about a month ago, and a committee appointed by the underwriters has finally perfected a plan of reorganization. Edwin F. Greene, Boston, Mass., Treas. of the Pacific Mill and a Director of the Boston & Maine R. R., is a member of the Committee. The Rockingham Power Co. has a 30,000-HP. plant at Blewett's Falls, N. C., designed to furnish power to the cotton mills in that section of North Carolina.

GRIFFIN, GA.—Improvements to the municipal electric light plant are recommended by J. W. Hammond, Supt., which include the installation of a 350-HP. engine, direct connected to a 240-KW. 2,300-volt 3-phase generator, with necessary piping, exciter, switches, meters, etc.; a 125-HP. boiler, with stack, valves, etc. H. H. Bass is Chn. Bd. of Water, Light & Sewer Comn.

HATTIESBURG, MISS.—Plans are being considered by J. H. Donald, Mayor, for the construction of a municipal electric light plant, for which a preliminary survey has been made of the Bouie River, above its confluence with Leaf River, two miles from the city. The cost of the plant is estimated at $150,000. J. H. Putnam of Hattiesburg, Miss., is Engr.

CINCINNATI, OHIO.—Plans for a powerhouse to be built on the north side of Keck St., between Foster and St. Andrews Sts., have been filed with Joseph L. Tuttle, Examiner of Plans, City Hall, by the Cincinnati Traction Co. The building is to cost $32,000, according to the Architect's estimate. Dana Stevens is Gen. Mgr.

WABASH, IND.—The Wabash Light & Power Co. has awarded a contract to the FORT WAYNE ELECTRIC WORKS for the installation of additional electrical equipment and machinery. George L. Smith will have charge of the work.

INDIANAPOLIS, IND.—The Indianapolis "News" states that an additional power plant is to be located in the western part of the business section of the city by the Merchants' Heat & Light Co. The site has not been selected, it is understood, but probably will be within a short time, and the construction work started. At a recent meeting of the stockholders of the company the common capital stock was increased to $500,000 and the bond issue to $2,000,000. The money derived from the increased capitalization will be used in the construction of the new plant. James B. Nelson is Mgr.

INDIANAPOLIS, IND.—The Merchants' Heat, Light & Power Co. will ask for bids soon for the construction and equipment of an additional plant in the west part of the city. Edward L. McKee is Pres.

KENTLAND, IND.—The Kentland Light & Ice Co., recently incorporated, will ask for bids soon for the construction of a combined electric light, water and ice plant. Hugh Hill is Pres.

BIG RAPIDS, MICH.—Plans are being made by the Grand Rapids-Muskegon Water Power Co. for development of the water power of Muskegon River, with a third power station. The company is purchasing land along the river near Big Rapids. George L. Erwin is Secy.

CADILLAC, MICH.—Articles of incorporation of the Western Michigan Power Co., with headquarters at Cadillac, have been filed with the County Clerk. The company is organized to generate electric power and do business in Mecosta and several other counties. The company will construct a dam across the Manistee River near Cadillac to furnish power for the line which will be built from Cadillac to Big Rapids. It is stated that the company is formulating plans to build an electric line between the two cities in the early spring. The company is capitalized at $10,000 and C. E. Russell, S. W. Kramer and F. H. Mills of Cadillac are the organizers and stockholders.

ANN ARBOR, MICH.—[illegible] Co., bought by J. P. M[illegible] dam the Huron River at [illegible] to erect a power plant. T[illegible] back water to flood the lo[illegible] Huron River in Ann Arb[illegible] that the Michigan Central [illegible] to raise its track and [illegible] Michigan is holding its p[illegible] plant to see what the Edi[illegible] do. If the Edison company [illegible] it will mean that a wate[illegible] possible to the University [illegible]

ROCK ISLAND, ILL.—Th[illegible] the People's Power Co., of [illegible] been increased from $1,000,0[illegible] The company proposes to ma[illegible] provements to both its el[illegible] plants. F. W. Reimers, Moli[illegible]

FAIRFIELD, IOWA.—The [illegible] Electric Co. contemplates [illegible] plant, at an expenditure of [illegible] $40,000. H. C. Stevenson is [illegible]

CENTRAL CITY, NEB.—Im[illegible] involving an expenditure of [illegible] and $5,000 are to be made so[illegible] of the Central City Gas Co. [illegible] to duplicate the entire mac[illegible] Blake is Supt.

DILLON, MONT.—W. W. M[illegible] E. Marcoe, of the Dillon Plum[illegible] ing Co., are preparing plans [illegible] heating plant which they pro[illegible] in Dillon soon at a cost of [illegible] plant will be of sufficient cap[illegible] the entire business section [illegible] steam heat.

ST. LOUIS, MO.—Bids are [illegible] noon, Feb. 5, by the Board of [illegible] provements, City Hall, for l[illegible] mantle lamps, the streets, a[illegible] walks, alleys, wharves, public [illegible] squares of the City of St. Louis [illegible] of ten years. Also for furnishing [illegible] for electric lighting of certain [illegible] ings and lighting of streets, aven[illegible] vards, alleys, parks, squares, [illegible] other public places of the city of St. Louis for a term of ten years. A. J. O'Reilly is Pres.; W. B. Dryden is Secy. Estimated cost for one year: Mantles, $7[illegible]; arcs, $130,000; public buildings, $30,000.

MARBLE FALLS, TEX.—Press reports state that construction work on the proposed dam at this point has been started. It will produce not less than 10,000 HP., and will cost $250,000. It is to be reinforced concrete and will be 17 ft. high and nearly 1,000 ft. long, giving a waterfall of 47 ft. In less than one mile the power will be used for manufacturing purposes. J. W. Maxcy, Binz Bldg., Houston, Tex., is Engr.

PORTLAND, ORE.—Articles of incorporation have been filed by the Portland Water Power & Electric Transmission Co. The company, which is headed by W. H. Hurlburt, former Pres. of the Oregon Water Power & Railway Co., is incorporated with a capital of $1,000,000. The other officers of the company have not been announced, but A. B. Crosman and R. L. Durham appear with Mr. Hurlburt as incorporators. It is the intention of the promoters of this new light and power company to erect a dam, power plant and other equipment on the Clackamas River near Estacada. Mr. Hurlburt has announced that work would begin immediately on the plant, which is to be completed and ready for operation in two years.

ARBUCKLE, CAL.—William H. Ash is interested in installing an electric light plant in the town.

LOS ANGELES, CAL.—Plans are being considered by the Edison Electric Co. for the construction of a central power plant to furnish electricity for all of the beach towns from Santa Monica to Naples. The cost of the plant is estimated at about $500,000. John B. Miller, of Pasadena, Cal., is Gen. Mgr.

GLENDORA, CAL.—The Western Water & Power Co. has passed into the hands of a corporation, known as the Glendora Irrigating Co., composed of resident orange growers, with C. C. Warren, W. B. Glidden, Judge Silent, Charles Gordon, Fred Schiffman, D. H. Mauerhan, J. B. Coulston and C. H. Converse as directors and stockholders. The new company has organized under the laws of the State of California, with a capital stock of $100,000. The organization is a mutual one, and will proceed to sink an additional well and equip the distributing system with the necessary pipes at once.

MADERA, CAL.—W. M. Parker is interested in forming a gas company here, to be incorporated under the name of the Madera Light, Heat & Power So. with a capital stock of $50,000, divided into 2,000 shares at $25 a share. The plant will be the same size as that in Visalia, which supplies over 400 people with gas for lighting and heating, and will be in operation three months after the work is started. It will have a capacity of 100,000 cu. ft. daily.

BOISE, IDAHO.—Contract has been let by the Boise & Interurban Ry. Co. to the WESTINGHOUSE ELECTRIC & MFG. CO. for machinery for the sub-station at Pierce, which will double the output of the station. The additional energy will be required when the double tracking of the road from Boise is completed. The cost of the machinery is estimated at $12,000. H. E. Dalton is Gen. Mgr.

POCATELLO, IDAHO.—The City Council has granted a franchise to F. E. Andrews, of Baltimore, Mich., and Andrew Heinkelman, of Marine City, Mich., to build and operate a gas plant in this city; the plant to be completed and gas furnished within 18 months from granting of franchise.

VANCOUVER, B. C.—James D. Schuyler, Engr., Union Trust Bldg., Los Angeles, has advised the British Columbia Electric Ry. Co. to undertake at the mouth of Lake Coquitlam the construction of a dam 75 ft. high. This will create an increased supply, which will flow through the hydraulic tunnel to Lake Buntzen, there being delivered to the pipes which carry it to the generating station on the North Arm of the inlet. This

scheme is being laid before the Provincial Government. R. H. Sperling, Vancouver, is Gen. Mgr.

VERNON, B. C.—The City Council has decided to expend $5,000 on the B. X. Creek water supply. Reports have been received from John Galt, C. E., and Meredith & Tracy. The reports estimated the Long Lake scheme would cost $96,000, but this scheme, besides supplying water for $5,000, would furnish 300 to 500 HP.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

*BRIDGEPORT, CONN.—The Congress St. Bridge Commission has awarded the contract for constructing one rolling lift bridge over Pequonock River at Congress St. to SNARE, TRIEST & CO., 143 Liberty St., New York, at $305,000. Bids were opened on Dec. 15.

SENECA FALLS, N. Y.—See under Electric Railways.

FAIRPORT, N. Y.—The bids received by F. C. Stevens, Supt. Pub. Wks., Albany, on Jan. 5, for Barge Canal Contract No. 38, embracing the construction of substructure and superstructure of highway bridge at Wappings, 2.5 miles west of here, were: W. W. Lindsay & Co., 902 Hanson Bldg., Philadelphia, Pa., $19,879; Henry J. Tosh & Son, Port Byron, N. Y., $17,157; Merrill, Ruckgaber & Fraser, 50 Church St., New York, $19,131; Charles T. Hookway, Syracuse, N. Y. $18,882; A. J. Rockwood, Rochester, N. Y. $19,846; Bellew & Merritt Co., Tuckahoe, N. Y., $21,986; E. W. Huntington, 748 East Main St., Rochester, N. Y., $19,019; Whitcombe, Rauber & Vicinus, Rochester, $19,775; W. J. Burns Co., Syracuse, N. Y., $20,275; W. A. Johnson, Collins, N. Y., $18,912; W. T. McKibben Co., 1170 Broadway, New York, $18,816. Engineer's estimate, $20,131.

ROCHESTER, N. Y.—The following bids were received by F. C. Stevens, Supt. Pub. Wks., on Jan. 5, for construction of a bascule lift bridge over the Erie canal at Allen St., Rochester: W. J. Burns Co., Syracuse, N. Y., $31,070; Merrill, Ruckgaber & Fraser, 50 Church St., New York, $33,674; W. T. McKibben Co., 1170 Broadway, New York, $26,708.

HARRISBURG, PA.—M. B. Cowden, City Engr., will prepare plans at once for the construction of single span steel plate-girder bridges across 13th and across 17th Sts. Each bridge will be 44 ft. wide, and they will be built jointly by the city and the Philadelphia & Reading R. R. Co. The 13th St. bridge will cost about $22,000 and the 17th St. structure will cost about $32,000.

WILMINGTON, DEL.—Plans have been completed for the construction of a steel bridge over the Baltimore & Ohio R. R. tracks at Seventh St. D. D. Carothers is Ch. Engr., Baltimore, Md.

ELKINS, W. VA.—Bids are asked until Jan. 8 by Randolph County for constructing three bridges. Lee Crouch is Clk. County Court.

*BEAUFORT, N. C.—Bids will be received by Capt. Earl I. Brown, Corps Engrs., U. S. A., Wilmington, N. C., until Jan. 30, for constructing a steel draw-span highway bridge with pile and concrete foundations on Core Creek, near Beaufort.

EAST CLEVELAND (Cleveland post-office), OHIO.—Bids are asked until Jan. 9 by K. F. Leet, Village Clk., 326 Williamson Bldg., Cleveland, for furnishing material and constructing a 24-in. circular culvert, in certain parts of the village. The Pease Engineering Co., 931 Williamson Bldg., Cleveland, are Engrs.

LISBON, OHIO.—The County Commissioners have awarded the contract for constructing the superstructure of a steel bridge over Nancy's Run in Franklin Township, to the CANTON CONCRETE CONSTRUCTION CO., of Canton, Ohio.

The contract for abutments was let to THOMAS WATSON, of Minerva, Ohio.

TOLEDO, OHIO.—Bids will be received by the County Auditor, Toledo, until Jan. 20 for furnishing material and repairing bridge on Ottawa Terrace over Ten Mile Creek, Washington Township. H. F. Van Fleet is Chn. County Comrs.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of County Commissioners until 11 a. m., Jan. 18, for furnishing the necessary material and labor for renewing the floor on the West Ave. bridge here. Will B. Jones is County Audr.

CINCINNATI, OHIO.—Bids are asked until noon, Jan. 29, by the County Commissioners for the construction of bridges on the Bogart Road and painting iron bridge at New Baltimore. Fred. Dreihs is Clk. Bd.

COLUMBUS, OHIO.—The following bids were opened on Dec. 16 by the Board of Public Service for the masonry for the Mound St. viaduct in connection with the separation of street and railway grades: Yawger Co., Indianapolis, Ind., $87,891; D. W. McGrath, Columbus, $91,927; Cooke, Grant & Fritz, Columbus, $98,400; E. Sturm, Columbus, $99,038; I. D. Tuttle, Cleveland, $99,732; D. E. Sullivan & Son, Columbus, $102,246; Fritz & Romer, Columbus, $103,248; The Schillinger Bros. Co., Columbus, $104,826; J. A. Swingle & Co., Zanesville, $106,470; Mac Wardell, Strasburg, $106,533; W. M. Brode & Co., Newcomerstown, $110,283; Westwater & Causey, Columbus, $110,369; Francis Bros., Columbus, $113,150; Pittsburg Construction Co., Pittsburg, Pa., $116,698; William E. Schwartz, Shepard, $117,114; Nave, Ryan & Curtis, Portsmouth, $118,607; The Columbus Engineering & Construction Co., Columbus, $122,606; Henry P. Romaine & Co., Columbus, $133,486; C. T. McCracken & Co., Columbus, $137,380. Henry Maetzel is Ch. Engr.

INDIANAPOLIS, IND.—The Mansfield Engineering Co. is the lowest bidder for the construction of the Capital Ave. bridge over Fall Creek, at $63,417. The highest bid was $69,998. Bismarck H. Miller is City Engr.

STREATOR, ILL.—F. A. Herbert, City Engr., has been instructed to prepare plans and specifications for the construction of a steel or concrete bridge here. Estimated cost, about $50,000. Noted Dec. 17.

HUME, ILL.—The contract for the construction of seven bridges has been awarded by the County Commissioners to the CLINTON BRIDGE & IRON WORKS, Clinton, Ill., at $5,940.

CLIFFLAND, IOWA.—The contract was awarded by the Board of County Supervisors on Dec. 19 for the construction of a bridge across the Des Moines River here to the OTTUMWA SUPPLY & CONSTRUCTION CO., Ottumwa, Iowa, at $25,000. The bridge will be 5-span, each span 135 ft. long and 18 ft. wide.

DUBUQUE, IOWA.—Plans are being prepared for the construction of a viaduct over the Chicago, Milwaukee & St. Paul Ry. tracks here. Estimated cost, $50,000.

WICHITA, KAN.—Bids are asked until noon, Jan. 9, by the County Commissioners for constructing five new bridges as follows: Steel bridge 80 ft. long, over Spring Creek in Rockford Township; steel bridge, 80 ft. long, over Spring Creek in Morton Township; steel bridge, 80 ft. long, over Cowskin Creek in Delano Township; steel bridge over the Arkansas River on Lawrence Ave. in Section 5, between Gypsum and Waco Townships, to use the steel formerly used on the Douglas Ave. bridge; steel bridge, 40 ft. long, across Chisholm Creek in Wichita Township. Total estimated cost, about $16,000.

BROOKINGS, S. DAK.—Bids will be received until Jan. 12 by the County Commissioners for constructing all bridges that may be ordered during the year 1909. P. J. Murphy is County Audr.

KANSAS CITY, MO.—The Kaw Valley Drainage Board has approved plans for the bridge to be constructed over the Kaw River by the Union Pacific R. R. Co. Russell L. Huntley is Ch. Engr., Omaha, Neb.

ST. CHARLES, MO.—The St. Louis & St. Charles Bridge Co. has been incorporated with $200,000 capital stock by Arthur P. Thompson, C. H. Wilcox, G. C. Strauss, all of Chicago, Ill., and others, and will take over the bridge spanning the Missouri River at St. Charles. The company will issue $200,000 of bonds.

DALLAS, TEX.—J. M. Preston, City Engr., is preparing plans and specifications for the construction of the viaduct over Trinity River and river bottoms between Dallas and Oak Cliff. The structure will be of concrete steel reinforced, with total length of about 3,200 ft. to span river with 98-ft. stretch, clear, between piers and height of about 60 ft. above normal water level, the arch to have a spring of 22 ft. from its base on pier to top of the curve. The piers will rest upon piling of 12-in. diameter and 15-ft. length, to be of concrete made of riprap, not reinforced. From the foot of the arches all bridge work is to be heavily reinforced and some other similar material, and will be 44 ft. wide, with sidewalks 5 ft. wide, with a 3-ft. balustrade of ornamented concrete. Estimated cost, between $225,000 and $325,000.

GUTHRIE, OKLA.—The Engineering Department of the Atchison, Topeka & Santa Fe Ry. Co., H. C. Phillips, Ch. Engr., Los Angeles, Cal., has prepared plans for a steel viaduct at Noble Ave. Estimated cost, $78,000.

FLORENCE, COLO.—FOX & SMITH have been awarded the contract, at $6,489, for constructing two bridges over Sand Creek at Second St. and Fifth St., respectively.

SPOKANE, WASH.—CHARLES G. SHEELY, 219 McPhee Bldg., Denver, Colo., has been awarded the contract, at $6,576, for constructing a bridge three miles east of the city limits for the county.

PESHASTIN, WASH.—The contract for the construction of a steel bridge, 250-ft. span, across the Wenatchee River here, has been awarded by the County Commissioners to J. W. QUIGG, of Wenatchee, Wash., at $7,939. Bids were opened on Dec. 28.

IMPERIAL, CAL.—The County Commissioners on Dec. 20 awarded the contract for the construction of five bridges over the New River to SAM WEBB, of Holtville, Cal., at $5,855.

EUREKA, CAL.—The cost of the construction of the Eel River bridge has been estimated by the Board of Supervisors at $91,390.

SAINT BONIFACE, MAN.—The Central Bridge Committee has approved plans, submitted by the Grand Trunk Pacific Ry. Co. Commissioners, for the construction of Central bridge. Estimated cost, $278,000.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

DEDHAM, MASS.—Bids are asked until Jan. 12 by the Superintendent of Schools, Board of Education, for erecting a 2-story brick and stone school, 78 × 139 ft. The building will cost $60,000, and the equipment $5,000. Luther C. Greenleaf, 101 Tremont St., Boston, Mass., is Arch.

BOSTON, MASS.—The competition for designing the proposed Roman Catholic University here to be built by the Boston College has been thrown open to a number of American architects, including several of Boston. Thomas I. Glasson is Pres. It is stated that $1,000,000 will be expended.

At a meeting of the Governor's Council held on Dec. 23 at the State House the Council advised the State Board of Insanity to accept its options on two sites offered for new insane asylums, one being near the Harvard Medical School, at a cost of $100,000, and the other at Lexington, at a cost of $20,000.

BOSTON, MASS.—On Jan. 2 the Suffolk County Court-house Comn. received a second set of bids for enlarging the Suffolk County court-house. (The first bids were received on Oct. 17. Following is a list of the new bids: George A. Fuller Co., Boston, $679,900; William Crane, Boston, $705,295; Woodbury & Leighton Co., $684,522; L. P. Soule & Son Co., Boston, $690,998; Conners Bros. Co., Lowell, $671,000; F. T. Nesbit & Co., 116 Nassau St., New York, $666,666. Noted fully on Oct. 29 and Dec. 17.

PROVIDENCE, R. I.—The City Property Committee of the City Council on Dec. 16 opened bids for erecting a school on Veasie St. and the bids submitted for the general construction were as follows: Sullivan & O'Neil, $69,000; Hartwell & Kingston, $77,600; William Williams, $69,700; Gilbane Building Co., $68,570; Emil Benson, $70,789; Famigletti Bros., $73,785; V. I. Reynolds, $78,500; David J. Barry, $70,500; Harding & Hamlin, $73,000; E. K. Watson & Co., $74,259; Humes Construction Co., $72,333; Benjamin F. Smith Co., $73,400; Horton & Hemenway, $76,085; Cruise & Smiley, $65,000. The lowest bid submitted for the ventilating and heating apparatus was from Cox & Stone at $7,315 and for wiring from the Boston Electric Co. at $574. No action has been taken on these bids.

NEW LONDON, CONN.—Bids are asked until 10 a. m., Jan. 30, by Major R. M. Scofield, Q. M., New London, Conn., for moving about four frame building at Fort H. G. Wright, N. Y.; constructing a frame addition to the hospital, and plumbing, electric wiring and heating same, at Fort Mansfield, R. I.; and for constructing an addition to the pumping plant and installing condensing machinery in same, at Fort Michie, N. Y.

NEW HAVEN, CONN.—Contracts were awarded as follows on Dec. 23 by the Ives Memorial Library Committee, it is stated, for erecting the proposed library, contracts amounting in all to $225,000: Excavation, masonry and plumbing, to the SPERRY & TREAT CO., of New Haven; exterior work of white Vermont marble, VERMONT MARBLE CO., of Proctor, Vt.; miscellaneous iron and structural steel work, HAY FOUNDRY & IRON CO., Newark, N. J.; interior marble work, including staircases, corridors and the like, VERMONT MARBLE CO.; sheet metal work and roofing (for a tar and gravel roof), probably to the CLASON ARCHITECTURAL METAL WORKS, Providence, R. I.; plaster modeling in the interior, to include moldings, etc., KLEE-THOMPSON CO., New York, N. Y.; glazing, to include the windows and skylights, DAVID SHULDINER, New York. The marble balustrade along Elm St., brick wall on Temple St., laying out of the grounds, etc., divided into contracts as follows: Marble work to the VERMONT MARBLE CO., masonry to the SPERRY & TREAT CO. and iron work to the HAY FOUNDRY & IRON WORKS. The Committee has not yet decided upon the mechanical equipment for the building, as there is a question whether the library will be equipped with a lighting power plant of its own or whether the lighting will be furnished by the United Illuminating Co. Cass Gilbert, 11 East 24th St., New York, is Arch.

NEW YORK, N. Y.—Plans have been filed by Warren & Wetmore, Archs., 3 East 33d St., for a 19-story hotel that will cost $2,000,000. It will be built for the City Leasing Co., Joseph W. Welch, Pres., on the Fourth Ave. block between 33d and 34th Sts., north of the Park Avenue Hotel. The hotel will be fireproof and will be built of brick, stone and steel, with terra cotta trim, and will be finished with cornice and peaked gables.

Carlyle Realty Co., 190 Broadway, Jacob Stein, Pres., will build two 12-story apartment houses on Cathedral Parkway, 125 ft. west of Amsterdam Ave. They will be 108.3 × 81 ft., of brick and limestone, with terra cotta ornamentation. Schwartz & Gross, 347 Fifth Ave., are Archs. Cost, $800,000.

It has been announced that the Bedford Presbyterian Church, Nostrand Ave. and Dean St., Brooklyn, Rev. Dr. S. Edward Young, Pastor, that the construction of the proposed church, which is to adjoin the old, will be begun within 40 days. The seating capacity of the new auditorium will be 1,042 persons, more than twice the present accommodation. The work will take about eight months and will require an expenditure of $90,000.

NEW YORK, N. Y.—We are officially advised that J. C. McGUIRE & CO., 50 Church St., have secured contract to build a 6-story brick and stone elevator apartment house, 64 × 100.5 ft., to be built at 142 and 144 East 56th St., for Emeline F. Parsons and Rosalie C. Slack as owners. It is to be of brick with limestone trimmings, the design being a modern Renaissance of somewhat unusual pattern, the facade being finished above the central entrance with a row of tall pilasters extending from the second to the fifth stories, and carrying an ornamental cornice. The building is to cost $125,000. Lawlor & Haase, 69 Wall St., are Archs.

NEW YORK, N. Y.—We are officially advised that the general contract for erecting a 7-story dwelling, 75 × 100 ft., at 47 East 52d St., for W. K. Vanderbilt, has been awarded to JACOB & YOUNGS, 1133 Broadway. Sub-contracts have not been let for plumbing, electrical work, marble and tile, finishing iron, plastering and decorations. The structure will cost $300,000.

ALBANY, N. Y.—The MANCHESTER MARBLE CO., of East Dorset Vt., has secured the contract for furnishing the marble to be used in the construction of the New York Education Building, at Albany, a $4,000,000 structure. Approximately 150,000 ft. of marble will be required to fulfil the contract, which is for $300,000. Palmer & Hornbostel, 68 William St., New York, are Archs.

GENEVA, N. Y.—The Board of Control of the New York Agricultural Experiment Station, Lyman P. Haviland, Chn., has requested an appropriation of $70,000 for the purpose of erecting an administration building during the year. Plans will be prepared by Franklin B. Ware, Capitol Bldg., Albany, State Arch.

SYRACUSE, N. Y.—The Board of Education has requested appropriations for constructing the following school buildings during the year: $95,000 for a 16-room school building, $55,000 for an 8-room school building and $70,000 for an 8-room addition and assembly hall to the Sumner School.

BINGHAMTON, N. Y.—Plans are being considered by the Board of Education for the construction of a high school building, including commercial and manual training departments, with accommodations for 1,500 pupils. Competitive plans will be called for soon. Cost, $300,000.

NIAGARA FALLS, N. Y.—J. R. White, Gluck Bldg., Niagara Falls, is preparing plans for remodeling the 5-story International Hotel, for John F. McDonald, Main and Falls Sts. Cost, $150,000. The owner will receive bids at once.

PHILADELPHIA, PA.—Solomon Asher has invited competitive plans for remodeling a 4-story residence into swimming school and dancing academy. The work will cost $50,000.

PHILADELPHIA, PA.—The Committee recently appointed by the Board of Trustees of the Second Regiment Corporation, which owns the Second Regiment Armory, at Broad St. and Susquehanna Ave., held a meeting on Dec. 29 and definite plans were decided upon for alterations to the armory building, which have been under consideration for several years. The plans as adopted provide for the purchase of the plot adjoining the present armory, on which it is intended to build a large hall, auditorium, drill and club rooms. The lot adjoining the armory, to purchase which the funds have been raised, has a frontage of 100 ft. on Broad St., and will allow of a large additional wing, which will be erected back to Carlisle St. The new building will be three stories high and two more stories will be added to the present 1-story front on Broad St., making the entire structure 300 × 200 ft. Alterations are proposed on the inside of the building, providing for an amphitheater capable of accommodating about 9,000 people. The hanging galleries on the mezzanine floor, which are used at present for officers' quarters and company rooms, will be torn out entirely and replaced with large galleries, which will seat about 3,500 people. The officers' headquarters, medical rooms and quartermasters' department will be located in the new front wing, and there will be room for the guard and drill floors in the basement, which will be 100 × 200 ft. The basement will be equipped with a swimming pool and a gymnasium. Col. A. H. Hartung, Col. A. P. Kunzig, Capt. F. W. Ling, Major Philip H. Kunzig and Capt. John H. Hall are members of the Committee.

PHILADELPHIA, PA.—Bids for the erection of two new public school buildings were opened by the Property Committee of the Board of Education on Dec. 29 and the contracts awarded as follows: Building to be located at 28th and Cambria Sts., to CRAMP & CO., Commonwealth Bldg., at $183,030; building at 59th and Race Sts., to B. KETCHAM'S SONS, 1029 Brown St., at $184,940. Both buildings will be ready for the opening of the school term next fall and will contain 27 divisions each. The building at 59th St. will be of concrete construction, so far as it is found practicable. The use of concrete is an experiment on the part of the Property Committee, who believe that it will be less expensive. It will cost $5,000 less than the cost of erection with stone. Both buildings will be started as soon as bonds are given by the contractors. The list of bids received follows: 28th and Cambria Sts., James G. Doak & Co., $196,800; Lynch Bros., $198,722; Cramp & Co., $183,030; Charles McCaul Co., $195,385; Lucas Peters, $194,012; B. Ketcham's Sons, $193,900; David Peoples, $191,423; Mitchell Bros., $198,000; Horace B. Diehl Co., $193,800; Sax & Abbott Construction Co., $195,280; W. J. Smith, $194,225. 59th and Race Sts., James G. Doak & Co., $193,950; Lynch Bros., $191,924; Cramp & Co., $191,070; Charles McCaul Co., $190,985; Lucas Peters, $199,012; B. Ketcham's Sons, $184,940; David Peoples, $191,275; Mitchell Bros., $191,764; Horace B. Diehl Co., $193,880; Sax & Abbott Construction Co., $189,585; W. J. Smith, $193,995.

An apartment house is to be built at Midvale Ave. and Oak Road, Germantown, by the Philadelphia Housekeeping Apartment Co. The plans provide for an 8-story building, with an English basement. It will be constructed of steel frame, with outer walls of colonial brick and glazed terra cotta, and will be fireproof. The floors will be of concrete and the walls of hollow tile, rendering them soundproof. The building will have a frontage of 165 ft., and a depth of 145 ft., and is so designed that every room will have an outside exposure.

Preliminary plans are being prepared for Richard C. Loos, Arch., 1017 Chestnut St., Philadelphia, for a $75,000 flat house to be built in West Philadelphia. The name of the owner and the exact location of the building are withheld for the present. The structure will be four stories high. It will be built of brick and terra cotta, and will contain 24 flats of six rooms.

PHILADELPHIA, PA.—Arrangements have been completed for the erection of a 17-story building addition to the office building of the Real Estate Trust Co., at the corner of Broad and Chestnut Sts. The plans are being drawn by Frank C. Roberts & Co. and Edgar W. Seeler, Archs., Real Estate Trust Bldg., and work will be started next summer. The addition will be built on the property at 1338 Chestnut St. The lot has a frontage of 22 ft. and a depth of 159 ft. The plans call for a building designed in the same style as the present Real Estate Trust Building. The first floor will contain a store or brokers' offices, being finished in accordance with the wishes of the tenant, and will extend the full depth of the lot. The 16 upper stories will extend only a distance of 52 ft. back from Chestnut St., leaving the remainder of the space vacant in order to allow ample light for the present offices.

BELLEFONTE, PA.—Plans for a gymnasium and athletic field to be built at Pennsylvania State College, near Bellefonte, are in course of preparation in the office of Seymour Davis & Paul A. Davis, Archs., 1600 Chestnut St., Philadelphia, Pa. The total cost will be about $350,000.

PITTSBURG, PA.—Press reports state that the First United Evangelical Protestant German Church of Pittsburg will erect a 14-story office building and church combined at Sixth Ave. and Smithfield St. Estimated cost, $1,500,000.

BALTIMORE, MD.—We are officially advised that contracts will be let at once for constructing 32 3-story iron, stone and brick dwellings, to cost $5,000 each. The total operation will cover an area 600 × 150 ft. The houses will have vapor steam heat, hard wood floors, improved plumbing, electric lighting, etc. They will be owned by the German Land Improvement Co., Law Bldg., Baltimore. Jacob F. Gerwig, 11 East Lexington St., is Arch.

WASHINGTON, D. C.—The contract to erect an 8-story reinforced-concrete warehouse and storage building for the U. S. Storage Co., at 420 Tenth St. N. W., has been awarded to the FERRO CONCRETE CO., of Baltimore, Md. Estimated cost, $150,000. B. S. Simmons, 431 F St. N. W., Washington, is Arch.

WASHINGTON, D. C.—Bids were received as follows on Jan. 2 at the office of the Commissioners of the District of Columbia for the construction of a 12-room school building: Thompson-Starrett Co., Commercial National Bank Bldg., $85,300; Pavarini & Wyne, Munsey Bldg., $93,000; W. E. Mooney, Lenman Bldg., $103,794; Burgess & Parsons, 627 F St. N. W., $87,200; all of Washington.

MOUNT WEATHER (Washington, D. C., post-office), VA.—Bids are asked until noon, Jan. 15, by James Wilson, Secy. U. S. Dept. of Agriculture, for the completion of a 3-story and cellar building for the Weather Bureau, U. S. Dept. of Agriculture, at Mount Weather, Va.

ATLANTA, GA.—Bids are asked until noon, Jan. 13, at the office of George C. Thompson, Arch., 1250 Candler Bldg., Atlanta, Ga., for constructing the Wesley Memorial Church building, for heating, for plumbing, for wiring and fixtures and for electric elevators.

SUMMERVILLE, GA.—The citizens of Chattanooga County have voted to issue $55,000 of bonds for the erection of a courthouse. The contract for erecting same has been awarded to the FALL CITY CONSTRUCTION CO., of Louisville, Ky., for $55,000.

PENSACOLA, FLA.—Bids for erecting the hotel for the Pensacola Hotel Co. were received on Dec. 21 and the contract was awarded to the C. H. TURNER CONSTRUCTION CO., of Pensacola, for a completed 7-story building, including general construction, plumbing, heating, electric wiring and fixtures, mail chute, elevators, fire escapes, etc. Total amount of contract, $261,000. It will be of reinforced-concrete construction, main building 90 × 150 ft., seven stories, with an addition 50 × 54 ft., two stories, which will be occupied largely by machinery. The work of clearing the site will commence at once, and the building will be completed in eleven months. Totals of other bids received: Luyster & Lowes, Dayton, Ohio, $244,200, and Interstate Construction Co., Mobile, Ala., $249,195. W. L. Stoddart, 31 Union Sq., New York, N. Y., is Arch.

NASHVILLE, TENN.—Bids are asked by Mowbray & Uffinger, Archs., 92 Liberty St., New York, until Jan. 14, for constructing a 5-story marble bank and office building for the Union Bank & Trust Co., Nashville. Estimated cost, $150,000; equipment, $25,000.

COLUMBUS, OHIO.—We are officially advised that bids were received Dec. 29 for the erection of a women's building on the State Fair Grounds. Dawson & Holbrook, Outlook Bldg., Columbus, are Archs. The contract has been awarded to HENRY ROMAINE, JR., Columbus.

TOLEDO, OHIO.—Sketches have been prepared showing the proposed temporary city-hall building. The site is in the rear of the Memorial Hall, and the proposed cost of the building is about $50,000, the building to serve temporarily, and to be later turned into office room when a permanent city hall structure is built. C. M. Feilbach, a member of the City Council, is interested.

CLEVELAND, OHIO.—A 12-story fireproof hotel is to be erected at the corner of Chestnut Ave. N. E. and East Ninth St. by George A. McKinnie, proprietor of the Baldwin Hotel. Mr. McKinnie has signed a 99-year lease for the corner, which has a frontage of 85 ft. on East Ninth St. and extends back 135 ft. on Chestnut Ave. An architect will begin work on plans for the hotel at once. Mr. McKinnie hopes to have the building completed in two years.

CLEVELAND, OHIO.—Plans are being prepared by Hubbell & Benes, Archs., Citizens' Bldg., Cleveland, for a Museum of Arts building in Wade Park, for the Cleveland Art Commission. Cost, $1,000,0000.

SOUTH BEND, IND.—Plans are being prepared for the construction of a $50,000 business block and lodge temple by Colfax Camp No. 3306, Modern Woodmen. E. G. Crawford is Chn. Bldg. Com.

INDIANAPOLIS, IND.—Henry Dollman's bid of $76,897 is the lowest received by the Board of Public Works for the construction of a contagious disease hospital building. This bid exceeds the appropriation and new bids may be asked for on modified plans.

INDIANAPOLIS, IND.—Bids for constructing the proposed contagious disease hospital, which is to be operated under the management of the City Hospital, were opened at the meeting of the Board of Public Works on Dec. 28. Three contractors made bids: Henry Dollman, $76,897; T. H. Harrison, $84,000; E. C. Halstead, $80,000. **The figures submitted by the contractors have reference to the bare construction of the service building, a central building and two contagious disease pavilions as proposed in specifications drawn by Brubaker & Stern, Archs., Aetna Bldg., at the direction of the Board of Works and the Board of Health. In case it is found necessary to add two pavilions, making four in all, the entire hospital, when furnished for use, is expected to cost in the neighborhood of $150,000. The bids have been referred to the Board of Health, with the request that the figures submitted be examined and an appropriation ordinance drawn to be presented at the next meeting of the Council to cover the expense of erecting the hospital.**

D. A. Bohlen & Son, Archs., Majestic Bldg., are preparing plans for a 4-story temple for the Murat Temple Association. Cost, $350,000.

NILES, MICH.—Bids were received as follows Jan. 5, at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Niles, Mich.: Max W. Stock Co., St. Joseph, Mo., $43,222; Scheurman Lumber Co., Ltd., Saginaw, Mich., $51,400; Charles W. Gindele Co., Chicago, $51,500; F. M. Roode & Co., Tipton, Ind., $58,000; John McNabb Co., Grand Rapids, Mich., $58,-938; English Bros., Champaign, Ill., $45,-700; E. Burner & Co., South Bend, Ind., $48,617; George A. Mills & Son, Benton Harbor, Mich., $62,738; Henry L. Vanderhorse, Kalamazoo, Mich., $55,460; James de Vault & Son, Canton, Ohio, $51,995; Edward Henry, South Bend, Ind., $49,830; Everley & Wallace, Plymouth, Ind., $43,000; Madison Building Co., New York, $57,650; Durolithic Co., Buffalo, N. Y., $52,210+ Hanson Bros., Chicago, $56,389; Paschen Bros., Chicago, $48,038; Charles Hoertz & Son, Grand Rapids, Mich., $51,404; J. D. Wallheiser, Kankakee, Ill., $52,366.

SAULT STE. MARIE, MICH.—Bids were received as follows Jan. 4 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Sault Ste. Marie, Mich.: Lipsett & Sinclair, Marquette, Mich., $134,676; A. P. Wilson, Marquette, $153,953; Northern Construction Co., Milwaukee, Wis., $144,600; Standard Construction Co., Chicago, $134,960; Hanson Bros., Chicago, $151,173; General Construction Co., Milwaukee, Wis., $136,000; Paul Riesen's Sons Co., Milwaukee, Wis., $144,773; Conners' Bros. Co., Lowell, Mass., $164,000; Ambrose B. Stannard, St. James Bldg., New York, $137,000; John McNabb Co., Grand Rapids, Mich., $150,000; King Lumber Co., Charlottesville, Va., $143,000; English Bros., Champaign, Ill., $133,000; Scheurman Lumber Co., Ltd., Saginaw, Mich., $144,858; Ed Henry, Tipton, Ind., $129,933; Marshall N. Hunt, Sault Ste. Marie, $148,000; Shirley & Barnes, Sault Ste. Marie, $151,800; Charles Hoertz & Son, Grand Rapids, $147,504. Time, July 15, 1910.

GRAND RAPIDS, MICH.—Plans have been adopted for a church to be erected here for the Wealthy Baptist congregation at a cost of $50,000, it is stated.

CHICAGO, ILL.—The northwest corner of South Park Ave. and 54th St. has been acquired by the Board of Education as a site for the new Burke school. The school is to occupy a site 300 × 180 ft. It is to be improved with a building containing 26 rooms, to cost $200,000. This building probably will be erected by degrees, according to the requirements of the neighborhood. The Burke School is now at 52d and Prairie Ave.

CHICAGO, ILL.—Plans have been prepared by Frost & Granger, Archs., The Temple, Chicago, for an 8-story warehouse for H. B. Borland, to cost $125,000.

CLARINDA, IOWA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 8, for construction complete of U. S. post-office at Clarinda.

MINNEAPOLIS, MINN.—H. F. Williams, Second Bank Bldg., has secured a site on Blaisdell and 22d Sts., on which a syndicate intends to erect an apartment house to cost $70,000.

COFFEYVILLE, KAN.—W. P. Brown is having plans prepared by George Hax, Arch., for a 4-story hotel, to cost $75,000.

*CHEYENNE, WYO.—We are officially advised that bids were received on Dec. 21 by Capt. V. K. Hart, Acting Q. M., for constructing at Fort D. A. Russell, Wyo., buildings specified below and for wiring and electrical fixtures in buildings requiring same. Quarters: (a) one building for Brigadier-General, (b) three for Field Officers, (c) seven double buildings for Captains, (d) three double buildings for Lieutenants, (e) one for bachelor officers, (f) two double buildings for N. C. Staff Officers, (g) two double Cavalry barracks, (h) four Cavalry stables, (i) one Field Staff and Band stable, (j) two fire stations, (k) one guard house, (l) two Quartermaster's workshops, (m) two coal sheds, (n) one hayshed, (o) two granaries, (p) two Quartermaster's storehouses, (q) two subsistence storehouses.

Following are the lowest bids received and recommended for acceptance: J. T. Dalton & Sons, Junction City, Kan., (c) $154,805, (p) $27,440; R. W. Bradley & Co., Cheyenne, (b) $42,000, (e) $37,192, (f) $12,680, (g) $98,000, (l) $9,272; Simpson Construction Co., Denver, Colo., (h) $58,904, (i) $11,311, (j) $6,250, (k) $18,669, (m) $8,772; Atkinson Bros., Cheyenne, (n) $3,975; the Morrison Contracting & Mfg. Co., (a) $22,600, (d) $59,930, (o) $25,870, (q) $23,695.

The Healy Plumbing & Heating Co., 277 West Third St., St. Paul, Minn., submitted the lowest bid for the entire heating and plumbing at $67,978. William A. Carrao, St. Louis, Mo., submitted the lowest general bid, at $19,308, for electrical wiring and fixtures.

ST. LOUIS, MO.—Bids are asked until noon, Jan. 29, by the Board of Public Improvements for constructing two fire engine houses to cost $20,000 each.

Eames & Young, Archs., Chestnut and Seventh Sts., are preparing plans for an 8-story building to be erected at Eighth St. and Franklin Ave., and to be occupied by the Union House Furnishing Co. Wrecking the building on the site will begin Jan. 15, and the new building will be started immediately. It will be fireproof with steel columns and reinforced-concrete floors. The exterior is to be gray vitrified brick, of ornate design. The building will have its own electric light and heating plant, and a compressed air vacuum cleaning plant.

UNIVERSITY (St. Louis post-office), MO.—The members of the Southern Methodist Church Extension Society have secured a site in University City, on which it is proposed erecting a $60,000 church.

BOULDER, MONT.—William Donovan, Arch., Great Falls, Mont., is preparing plans for a county high school to be built at Boulder.

TULSA, OKLA.—The School Board has let contract to ALLEN COOK for the erection of a 3-story ward school building to cost $73,000.

LAWTON, OKLA.—J. Ira Jones, Arch., 328 C Ave., is preparing plans and will receive bids for a 4-story hotel, 50 × 150 ft., for G. H. Block and Henry Shaffer. Estimated cost, $100,000.

SAN ANTONIO, TEX.—Mauran, Russell & Garden, Archs., Chemical Bldg., St. Louis, Mo., have let contract to the WESTLAKE CONSTRUCTION CO., 717 Locust St., St. Louis, for a hotel for the San Antonio Hotel Co., San Antonio. Cost, $350,000.

SEATTLE WASH.—We are officially advised that the Municipal Building Department reports that 1,059 building permits were issued in Seattle in December at a value of $1,503,420. During the entire year 13,551 permits for buildings valued at $13,-777,329 were issued. The year 1908 showed an increase in value of 1½% over 1907 and an increase in number of 29%.

SAN DIEGO, CAL.—The contract for the construction of a 10-story and basement building to be erected at the corner of Fifth and D Sts. for the American Land & Building Co., has been let to R. B. SHIELDS & SONS for $190,727. The contract does not include the heating and ventilating, elevators, vacuum cleaning and compressed air apparatus, hardware or electric light fixtures. The plans are from the office of Franklin P. Burnham, Arch., Pacific Electric Bldg., Los Angeles. The building will be 50 × 100 ft. The first story is to be faced with white marble, and the upper nine stories with pressed brick of a granite color and terra cotta cornice, etc. The walls, floors and partitions will be of reinforced concrete. The corridors and entrance will have tile floors and marble wainscoting and mahogany trim. The two passenger elevators will be of the plunger type. The building will be heated by steam and have a complete equipment of compressed air for the use of tenants and for operating the vacuum cleaning system.

LOS ANGELES, CAL.—Bids are asked until 2 p. m., Feb. 1, by the Board of Supervisors of Los Angeles County, for the construction of an administration building, a medical pavilion and a consumptive ward at the County Hospital of Los Angeles County. C. G. Keyes is County Clerk; Hudson & Munsell, Stimson Bldg., Los Angeles, are Archs.

VALLEJO, CAL.—Bids are asked until 11 a. m., Jan. 30, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for installing an electric elevator in the general storehouse (Building No. 71) at the U. S. Navy Yard, Mare Island, Cal. Specifications are on file at the office of Engineering News, New York.

SAN FRANCISCO, CAL.—Meyers & Ward, Archs., Kohl Bldg., have prepared plans for rebuilding the memorial chapel at the Stanford University, which was erected several years ago at a cost of about $700,000, and which was wrecked by the earthquake of 1906. Leon Sloss is Chn. Bldg. Com.

The Western Pacific Ry. Co. has let contracts for the construction of seven passenger and freight stations on the line between Oakland and Stockton. A combination freight and passenger station for Pleasanton and one for Sunol and a freight station building for Livermore, will be built by F. W. MAURICE, of Oakland. A combination passenger and freight station building for Niles, and one for Decoto, and freight station buildings for San Leandro and Hayward have been awarded under contract to DAVID HALLIDAY, of Berkeley. All these buildings will adhere to the old Mission style of architectural appearance. A number of firms submitted bids and the lowest bidders were awarded the contracts.

SAN FRANCISCO, CAL.—Rivers Bros., 1955 Market St., are excavating their lot at the corner of Taylor and Turk Sts., to prepare the lot for building. They are negotiating for a lease on the hotel or rooming-house, and as soon as the lease is closed C. A. Meussdorffer, Arch., Humboldt Bank Bldg., will be given instructions on the plans. The building will be five stories high, with a basement the full size of the lot. So much has been determined on by the owners. The lot has a frontage of 77.6 ft. on Taylor St. and 40 ft. on Turk St. It was bought recently by the Rivers Bros. as an investment. The basement will be designed for a cafe and finished handsomely to make it attractive. The ground floor will be divided into stores and a restaurant, and the upper floors arranged for either a family hotel or rooming house.

The Jacob Z. Davis Estate Co., which owns the site of the old Thurlow Block, at the corner of Kearny and Sutter Sts., has decided to erect a Class A steel frame business building of four stories and basement upon the lot. The ground floor is laid out for stores, and the upper floors will be finished as lofts to be adapted to the purposes of business tenants of the shopping district. The estimated cost of the building is $250,-000. It will be completed within six months. L. B. Dutton, Chronicle Bldg., is Arch. He has designed an attractive commercial building, paying special attention to its fire-resisting qualities. A. J. Rich & Co., 121 Sutter St., have been appointed exclusive agents of the property, for [illegible]ing rented several [illegible] lofts.

A 5-story and bas[illegible] is to be erected a[illegible] Dougall Bros., Archs. [illegible] the north side of Ma[illegible] Marshall St., for the [illegible] The first story is to [illegible] four upper stories [illegible] lodging house. The [illegible] to be faced with gl[illegible] cotta trimmings. Th[illegible] $50,000 and be ready [illegible] five months.

SAN FRANCISCO, C[illegible] building is to be erect[illegible] west side of Powell [illegible] O'Farrell St., the [illegible] leased for a term of te[illegible] through the office of [illegible] property is owned by [illegible] A hotel covering the [illegible] ft., will be built accor[illegible] pared by Hermann Ba[illegible] sion St., who is workin[illegible] for contractors. There [illegible] which may be occupied [illegible] ground floor will conta[illegible] the hotel entrance. Th[illegible] be used as a hotel or ro[illegible] Mrs. P. F. Butler is h[illegible] for a 7-story building [illegible] her lot at the corner o[illegible] Sts., in the same bloc[illegible] building. The estimate[illegible] ture is between $70,000[illegible] intended for a rooming [illegible] on the ground floor. Th[illegible] in pressed brick and the[illegible] frame for the center.

SAN JOSE, CAL.—It h[illegible] been decided by the owners, Dr. G. D. [illegible] Montgomery & Son, to er[illegible] forced-concrete hotel on South First St. be[illegible] tween San Antonio and San Carlos Sts. There will be 72 rooms, with a basement under the whole building. The building will be modern and convenient in every respect and will include an elevator. The new hotel has been leased for ten years to the Kayser Bros., who are now conducting the Russ House.

PERRIS, CAL.—F. W. Burns, of Los Angeles, and B. A. Brenner have secured a 12-year lease on 130 acres of land known as the John Wolfskill tract. Upon this land are hot sulphur springs and Mr. Burns states that he will begin as soon as possible construction of a hotel and hot springs resort. A bath house will be constructed of concrete and cement.

TWIN FALLS, IDAHO.—The citizens of Twin Falls County have voted bonds in the sum of $150,000 for the purpose of erecting in the county seat a court-house. The contract for drawing the plans and superintending the work was awarded to C. HARVEY SMITH. George L. Crocker is Chn. Bd. Comrs. of Twin Falls County.

THREE RIVERS, QUE.—The contract for the proposed market building to be erected here has been awarded to J. BIGRAS at $40,000. T. Daoust, 180 St. Jacques St., Montreal, is Arch.

PORT ARTHUR, ONT.—The Canadian Northern Ry. has decided to build a hotel here to cost $250,000. M. H. McLeod is Gen. Mgr., Winnipeg.

NEW WESTMINSTER, B. C.—Bids will be called for soon for the construction of the proposed central building of the provincial asylum to be erected at Coquitlam, near this city, at an estimated cost of between $200,000 and $270,000. The plans were prepared by H. S. Griffiths, Toronto, Ont., Arch.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

FORT McKINLEY (Portland post-office), ME.—The Artesian Well Supply Co., Providence, R. I., was the lowest bidder on Dec. 19 for sinking deep wells at Fort McKinley. Capt. F. J. Morrow is Q. M., U. S. A., Portland.

RUTLAND, VT.—G. C. Whipple, 103 Park Ave., New York, has presented to H. O. Carpenter, Mayor and Chn. Water Comn., his report on the city's water supply system. In it he recommends that the water be taken from the North branch of Cold River and a reservoir be constructed. Estimated cost, $116,400.

*PROVIDENCE, R. I.—Specifications are on file at the office of Engineering News, New York, for cast-iron water pipe. Bids are asked until Jan. 8.

AUBURN, N. Y.—Hazen & Whipple, Consult. Engrs., 103 Park Ave., are inspecting the water shed with a view to making any changes necessary for its improvement, and will also determine whether it is feasible to construct a filtration plant.

NEW YORK, N. Y.—Bids were received as follows on Dec. 30 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying water mains in Amsterdam, Haven, Lexington and Seventh Aves., 96th, 132d, 138th, 146th, 155th, 171st, 180th and exterior streets, and in Broadway, Borough of Manhattan: Hanover Contracting Co., 129 West 125th St., New York, $86,218; Joseph Burns, 147 East 125th St., New York, $94,265; James M. Rogers, $89,983; The Wilson Construction Co., $112,636; Joseph A. Pirelli, $173,556; McHarg Barton Co., $116,812; Louis D. Gregory, $90,512.

Bids were also received as follows for 6-in. inside screw valves and hydrant valve boxes and covers: Walter J. Drummond, 182 Broadway, New York, $12 and $40, respectively; H. M. Buck, 58 West 106th St., New York, $10; The Kennedy Valve Mfg. Co., 57 Beekman St., New York, $14 and $52; John Fox & Co., 253 Broadway, New York, $11 and $45; Rensellear Mfg. Co., $10; Ludlow Valve Mfg. Co., 62 Gold St., New York, $12.

*HADDONFIELD, N. J.—Contracts for the construction of water-works, bids opened on Dec 1, have been awarded as follows: To CAMDEN IRON WORKS, Camden, N. J., pipe and special castings, $25,152; DARLING PUMP CO., Williamsport, Pa., valves and boxes, $2,995; NEW JERSEY CONTRACTING & CONSTRUCTION CO., Camden, laying suction pipe, $8,909, and constructing pumping cistern, $4,490; PHILADELPHIA IRON WORKS, 418 North 18th St., Philadelphia, Pa., furnishing and erecting standpipe and foundation, $9,090; WILBERT BEAUMONT, Atlantic City, N. J., for constructing engine house, $4,900; FAIRBANKS CO., Tribune Bldg., Chicago, Ill., for drilling new well, 150 ft. deep, and furnishing suction screen; OTTO GAS ENGINE WORKS, 33d and Wharton Sts., Philadelphia, for two gas engines and two gas producers, $17,270. Allen Clymer is Boro. Clk.

PASSAIC, N. J.—For the purpose of supplying Clifton and giving the "hill" section of Passaic a better water pressure, and to relieve the large main in Main St. through which Passaic is supplied from the pumping station at Little Falls, the Passaic Water Co. is laying a 30-in. main from the Stephburn farm at Brookdale, through Richfield to Clifton Ave., where it will feed into the Main St. main at Clifton Ave. The main leading from the Great Notch reservoir at Brookdale will be tapped for the new supply. When water is turned into the main it will enable the Acquackanonk Water Co. to furnish Passaic with a better water pressure and a more ample supply and afford relief to the Main St. main.

CHARLEROI, PA.—The Charleroi Water Co., W. L. Mellon, Mellon National Bank, Pittsburg, Pres., is considering installing a filtration plant here and also a new duplicate pumping station, the combined cost of both of which will be about $60,000. The water system will also be extended to remote parts of the city, and also to North Charleroi.

POTTSVILLE, PA.—The Pottsville Water Co. is considering the construction of a reservoir and laying new water mains.

WASHINGTON, D. C.—The following are the bids opened on Dec. 17 at the office of the Superintendent of Construction, National Museum, for pipe, fittings and valves for the New National Museum: Walworth Manufacturing Co., 134 Federal St., Boston, Mass., $8,203; Wallace Stebbins' Sons, Baltimore, Md., $8,210; M. W. Kellogg & Co., Jersey City, N. J. (three bids), $7,916, $8,142 and $7,525; Bridgman Bros Co., 1426 Washington St., Philadelphia, Pa., $6,573; S. Faith & Co., 2427 Pennsylvania Ave., Philadelphia, $6,689; Crane Co., 521 South Canal St., Chicago, Ill., (two bids), $7,166 and $7,292.

ROANOKE, VA.—Bids are asked by R. H. Wills, City Clk., until noon, Jan. 16, for laying a 4-in. water main, from the intersection of Salem Ave. and Sixth St., a distance of about 160 ft., to a point on lot No. 3 fire station, at Sixth St. and Rorer Ave.; also for installing a fire hydrant on said lot, connections to be made with the Vinton-Roanoke Water Co.'s main.

GRIFFIN, GA.—J. W. Hammond, Supt. Water and Sewerage Comn., has recommended the following improvements at the city water-works: Additional reservoir of 200,000 gallons capacity; an electric pump of 500,000 gallons capacity; extension of water mains, using 8-in. pipe.

FITZGERALD, GA.—The city has awarded contracts for machinery and material required in the extension of the water-works system as follows: Air compressor, INGERSOLL-RAND CO., 11 Broadway, New York; compound duplex pump, PLATT IRON WORKS CO., Dayton, Ohio; 500 tons c.-i. pipe, U. S. CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York. Contracts for lead and hydrants, reservoir, 16 × 34 ft., capacity of 110,000 gallons, have not been awarded. A. H. Denmark is Secy. Water, Light and Bond Comn.

*KEY WEST, FLA.—Bids are asked until 11 a. m., Feb. 5, by Capt. C. H. Lanza, Q. M., U. S. A., Key West, for furnishing a condenser, filter, feed water heater, etc.; also for remodeling pumping and distilling plant at Key West Barracks, Fla. Plans and specifications may be had on request.

BEACH CITY, OHIO.—The State Board of Health has approved plans for the public water supply for Beach City.

DAYTON, OHIO.—The Board of Public Service has selected G. H. Benzenberg, of Cincinnati, to investigate and report on a plan for a future water supply system.

EAST LIVERPOOL, OHIO.—The lowest bid opened on Dec. 23 by the Board of Public Service for constructing a filtration plant was submitted by Luyster & Lowes Co., of Dayton, for about $39,000.

ECORSE, MICH.—The City Engineer has submitted to the Village Council a report on the proposed extensions to the water mains and has estimated the cost at $15,000.

NORWAY, MICH.—The city contemplates expending the sum of $24,000 for pipe for water extensions.

SILVIS, ILL.—H. G. Paddock, of Moline, Ill., has completed plans for stand pipes, about three miles of water mains and four miles of sewers. Estimated cost, about $35,000.

CHICAGO, ILL.—Bids were opened on Dec. 29 by John J. Hanberg, Comr. Pub. Wks., for furnishing and delivering to the city pipe yards approximately 5,500 tons of 6, 8 and 12-in. c.-i. water pipe. The contract has been awarded to the U. S. CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York, at $24 per ton.

RICHLAND CENTER, WIS.—Bids will be received by Reuben Sutton, City Clk., until 8 p. m., Feb. 2, for furnishing a 400-gallon triplex power pump. Specifications and blank proposals can be had from W. G. Kirchoffer, Engr., Madison, Wis.

COFFEYVILLE, KAN.—This city contemplates installing a filtration plant of 2,000,000 gallons capacity. D. M. Blair is Supt. Water-Works.

INDEPENDENCE, KAN.—A. D. Stivers, City Engr., is preparing preliminary plans for a 7,000,000-gallon reinforced-concrete settling basin. Bids will be advertised for in the spring. J. D. Kramer is City Clk.

AUGUSTA, KAN.—Bids will be received by Timothy Sexton, City Clk., until 3 p. m., Jan. 20, for constructing a system of water-works. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

MOUNDRIDGE, KAN.—Bids will be received by A. Ringwald, City Clk., until 3 p. m., Jan. 18, for the construction of a system of water-works. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

KANSAS CITY, KAN.—The City Council on Dec. 22 instructed R. L. McAlpine, City Engr., to engage William G. Goodwin as consulting engineer to make an estimate of the cost of rebuilding the plant of the Metropolitan Water Co. and to estimate the cost of installing new settling basins and other equipment, capable of supplying the city with 12,000,000 gallons daily.

KANSAS CITY, MO.—Bids will be received by the Board of Fire and Water Commissioners, S. J. Armstrong, Secy., until Jan. 14, for furnishing and delivering f. o. b. cars Kansas City all pipe and specials required for city's use for the year ending Jan. 1, 1910.

Plans and specifications were submitted to the Fire and Water Board on Dec. 24 by W. G. Goodwin, Ch. Engr., for the purchase and installation of an additional low-pressure engine of 35,000,000 gallons daily capacity in Quindaro station, and an additional high-pressure engine of 20,000,000 gallons daily capacity. Estimated cost, $50,000 and $125,000 respectively.

CONROE, TEX.—The citizens on Dec. 22 voted to issue $77,000 of bonds for the construction of water-works.

*SEYMOUR, TEX.—Bids will be received until Jan. 19 by the city for the purchase of material necessary in the construction of a system of water-works, consisting of return tubular boiler, duplex pump, c.-i. pipe, fire hydrants and valves. Specifications may be had by addressing the O'Neil Engineering Co., Dallas, Tex.

*DALLAS, TEX.—Bids will be received by J. B. Winslett, City Secy., until 3 p. m., Jan. 15, for furnishing one air compressor, to be duplex with compound steam and 2-stage air cylinders, and to be designed that it may run either condensing or non-condensing as required. Compressor shall be capable of furnishing not less than 700 cu. ft. of free air per min. against a gage pressure of 100 lbs. with steam pressure of from 80 to 100 lbs. Specifications are on file in the office of the City Secy., copy of which can be had on application. Said compressor to be delivered f. o. b. Dallas.

HOBART, OKLA.—No contract was awarded on Dec. 15 for a pumping engine of 2,000,000 gallons capacity, both condensing and non-condensing, on account of illegality of notice. New bids will be asked.

MONTE VISTA, COLO.—The election held on Dec. 21 on the question of forming an irrigation district resulted in favor of the proposition. The district will be known as the San Luis Valley Irrigation District, and comprises about 80,000 acres situated in Saguache, Rio Grande and Costilla Counties, which territory is watered by the canal system of the Farmers' Union Irrigation Co. In addition to the canal system the Farmers' Union Co. has obtained from the government a reservoir site.

BOULDER, COLO.—Articles of incorporation were filed on Dec. 22 by the Supply Reservoir Co., organized by Henry Culver, Fred Gibson, Charles H. Baker, Ray R. Mathews and Joseph Lee, all of Longmont, Colo., for the purpose of owning and constructing reservoirs, ditches and pipe lines and taking over the Long's Peak reservoir which is located in the northwest corner of the county. It is proposed to enlarge this reservoir and build and acquire in the valley, other reservoirs to supplement the system. The capital stock is $25,000.

ASTORIA, ORE.—All bids opened on Dec. 21 by the Water Commission, C. S. Wright Chn., for furnishing material and constructing about 12,000 ft. of 24-in. concrete water pipe and about 13,000 ft. of steel water pipe and furnishings, have been rejected as excessive. The lowest bid received was submitted by Goodin, Palberg & Mattson at about $39,416. Engineer's estimate, $35,790.

VERNON, B. C.—John Galt, C. E., Toronto, Ont., has plans for the construction of the water-supply system here. Estimated cost, about $25,000.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids will be received until 11 a. m., Jan. 12, by Louis Haffen, Pres. Boro. of the Bronx, for completing contract abandoned Oct. 26, 1908, for the construction of a storm relief tunnel sewer from Webster Ave. sewer, near Wendover Ave., in Mill Brook watershed (Sewerage Dist. 33), to Harlem River, about 231 ft. north of High Bridge, 24th Ward, Borough of the Bronx.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Jan. 18, by John F. Ahearn, Pres. Boro. of Manhattan, for furnishing all the labor and material required for sewer and appurtenances in 55th St., between Ave. A and East River.

SHARON, PA.—The State Board of Health has extended the time to three years in which this city, Meadville, Greenville and New Castle must build sewage disposal systems to take care of the municipal sewage.

DARLINGTON, PA.—The Board of Managers of the House of Refuge, Glen Mills, has awarded the contract to the LATTA & TERRY CONSTRUCTION CO., Philadelphia, for the construction of a sewerage disposal plant on the grounds of the Girls' House of Refuge at Darlington.

SAVANNAH, GA.—A. Willink, Dir. Pub. Wks., in his annual report, has estimated the cost of extending the house drainage system at $30,000.

MOBILE, ALA.—Wright Smith, Consult. Engr., Mobile, has been instructed to prepare plans and specifications for storm drainage for the northwestern portion of the city. Estimated cost, about $560,000; also for pavement and drainage of two of main residential thoroughfares of city. Estimated cost, about $140,000. Bids will probably not be asked until March or April. J. J. McMahon is Secy. Bd. Pub. Wks.

PARK STATION (Knoxville post-office), TENN.—Bids are asked by the city until Jan. 11 for the construction of a sewerage system. W. C. Crozer is City Engr.

LOUISVILLE, KY.—Bids will be received until Jan. 22 by the Commissioners of Sewerage, P. L. Atherton, Chn., for the southern outfall sewer, Sec. "F," Contract 20 of the Comprehensive System of Sewerage. J. B. F. Breed is Ch. Engr.

FRANKLIN, KY.—Granberry Jackson, of Nashville, Tenn., was selected on Dec. 18 to prepare plans for the construction of the proposed sewerage system. Bids have not yet been asked for construction.

*OXFORD, OHIO.—We are officially advised that bids were received as follows on Dec. 22 by the city for constructing a sewage disposal plant, consisting of sedimentation tank, filter beds, automatic distributing machinery and controlling house: F. M. Benner & Co., Marion, Ind., $17,667; Emanuel L. Schneider, 420 West Liberty St., Ann Arbor, Mich., $18,904; Thomas P. Strack, Goodall Bldg., Cincinnati, Ohio, $34,892. Riggs & Sherman Co. are Engrs., Toledo, Ohio.

ANGOLA, IND.—It is probable that nothing will be done until the spring on the construction of the proposed sewerage system. Estimated cost, about $88,000. R. L. Sackett, of Lafayette, Ind., is Engr. Noted Dec. 24.

NAPERVILLE, ILL.—See item under Streets and Roads.

GRUNDY CENTER, IOWA.—The Iowa Engineering Co., C. P. Chase, Mgr., Clinton, Iowa, has completed plans for an 8 and 10-in. sanitary sewer for the city. Bids will be received by E. A. Cary, Chn. Sewer Com., until March 8.

DULUTH, MINN.—The Council is considering the construction of a new sewerage system for West Duluth. Thomas McGilvray is City Engr.

STERLING, KAN.—McLANE & MYERS, of Hutchinson, Kan., have been awarded the contract by the Sewer Commission for preliminary work for the proposed sewerage system. H. R. Ross is Chn. Com.

LINDSBORG, KAN.—The City Council has decided to engage H. A. Rowland, County Surv., to prepare plans and specifications for the construction of a sewerage system here.

LEAVENWORTH, KAN.—Bids are asked by the Department of Justice until 10 a. m., Feb. 1, for furnishing and delivering at the U. S. penitentiary, Leavenworth, Kan., cast-iron pipe-fittings and supplies and vitrified clay pipe and fittings for drainage and sewers. R. V. Ladow is Supt. Prisons and Prisoners.

GREAT FALLS, MONT.—Bids are asked by the City Council until Feb. 15 for the construction of a sewer in sewer district No. 56. C. W. Swearingen is City Engr.

KANSAS CITY, MO.—The following bids were opened on Dec. 23 by the Board of Public Works for building a gate valve and pump with necessary machinery for operating same, in joint sewer district Nos. 237, 238 and 239: Midland Supply Co., $17,250; A. D. Johnson, $16,000.

STAMFORD, TEX.—The Stamford Sewerage Co. has increased its capital stock from $5,000 to $25,000.

ARLINGTON, TEX.—The city has voted the issuance of $25,000 of bonds for sewer construction.

BREMERTON, WASH.—The City Council on Dec. 21 awarded the contract for constructing sewers in Fourth, Fifth, Sixth and Dock Sts. to N. C. JOHNSON, of Seattle, Wash., at about $8,000.

TACOMA, WASH.—Frank L. Davis, City Engr., is preparing plans for the construction of a storm sewer system, preliminary estimates having been ordered by the Council. Estimated cost, about $300,000.

MONROVIA, CAL.—The City Council has accepted the plans of F. H. Olmstead for the construction of the new sewerage system. Estimated cost, $162,000.

AGNEW, CAL.—The Board of Managers of the Agnew State Hospital has postponed indefinitely the letting of contract for a sewer and conduit system at the hospital.

LOS ANGELES, CAL.—The City Council has approved the plans of the City Engineer for the West Boyle Heights sewer system.

SAN FRANCISCO, CAL.—The Board of Public Works has petitioned the Board of Supervisors for an appropriation of $140,000 for the construction of the southerly section of the East Potrero intercepting sewer, the northerly portion of which has been constructed. Marsden Manson is City Engr.

SAN FRANCISCO, CAL.—Bids are asked until 2 p. m., Jan. 13, by the Board of Public Works, for the construction of a 12-in. salt glazed iron-stone pipe sewer in Hampshire St. Marsden Manson is City Engr.

TORONTO, ONT.—Bids will be received until Jan. 15 by registered post only by Joseph Oliver, Mayor and Chn. Bd. of Control, for the construction of Section No. 3 of the high level intercepting sewer. The work will consist of about 6,385 lin. ft. of 7-ft., 6-in. to 8-ft. 6-in. circular sewer, with manholes, connections, etc. C. H. Rust is City Engr. Bids were asked until Dec. 15.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

HARTFORD, CONN.—These plans for state road work have been received at the office of the State Highway Commissioner: From F. J. Kellogg, 26,600 lin. ft. on the Newtown Turnpike, in the town of Newtown; from Daboll & Crandall, 20,900 lin. ft. on the Groton and Noank road, in the town of Groton; from William B. Reynolds, 6,300 lin. ft. on the Waterbury road, in the town of Thomaston.

POUGHKEEPSIE, N. Y.—The repaving of portions of Market and Union Sts. is contemplated by the city. R. J. Harding is City Engr.

LONG ISLAND CITY (L. I.), N. Y.—Bids were received as follows on Dec. 30 by Lawrence Gresser, Pres. Boro. of Queens for (a) regulating, grading and repaving with second-hand granite block pavement on a sand foundation the roadway of College Point Causeway, including all grading and the extension of the present culvert as per plans from a point 200 ft. north of Myrtle Ave. to a point 3,400 ft. north of Myrtle Ave., Third Ward. (b) regulating, grading, concrete curbing, laying bluestone sidewalks and crosswalks on Potter Ave., from Eleventh Ave. to Flushing Ave., First Ward. (c) regulating, grading, curbing, laying sidewalks and crosswalks of bluestones on Eleventh Ave., from Flushing Ave. to Potter Ave., First Ward. (d) regulating, grading, curbing and laying bluestone sidewalks on Twelfth Ave., from Grand Ave. to Newtown Road, First Ward: (a) Joseph A. Boyce, Elmhurst, L. I., N. Y., $24,637; Phoenix Construction Co., $27,868; Peace Bros., $49,379; Thomas F. Touhy & Co., $41,882; McHargBarton Co., $47,665; Thomas F. O'Brien, $30,758; Atlanta Contracting Co., $27,883. (b), Astoria Construction Co., Astoria, L. I., N. Y., $11,354; H. J. Quinn & Son, $18,455; Peace Bros., $11,843; Dennis McCarthy, $16,674; Joseph A. Boyce, $11,568; John C. Young, $16,658; H. & J. Contracting Co., $12,434; J. F. Touhy & Co., $13,333; Wm. Horey, $12,641; H. J. Mullen, $14,205. (c), Astoria Construction Co., $3,864; H. J. Quinn & Son, $7,424; H. J. Contracting Co., $4,357; Dennis McCarthy, $5,279; Joseph A. Boyce, $4,367; John C. Young, $5,212; Peace Bros., $4,755; J. F. Touhy & Co., $5,301; William Horey, $4,700; H. J. Mullen, $4,-294. (d), Joseph A. Boyce, $5,816; Quinn & Son, $8,494; H. & J. Contracting Co., $6,612; T. F. Touhy & Co., $7,024; H. J. Mullen, $6,732; John C. Young, $7,867; Astoria Construction Co., $6,191; Peace Bros., $7,024; William Horey, $6,219.

NEW YORK, N. Y.—Bids were received as follows Dec. 30 by John F. Ahearn, Pres. Boro. Manhattan, for regulating and repaving with sheet asphalt pavement on a concrete foundation the roadway of the following streets and avenues: (a) Eldridge St., from the north side of Division St. to the south side of East Houston St., (b) Forsyth St., 205 ft. south of the south house line of Canal St. to the south side of Grand St., (c) Ludlow St., from the north side of Division St. to the south side of Houston St., (d) Second Ave., from the south side of 94th St. to the north side of 108th St.: (a) Sicilian Asphalt Paving Co., $29,128; Continental Asphalt Paving Co., $32,599; Barber Asphalt Paving Co., 30 Church St., New York, $24,586; Uvalde Asphalt Paving Co., $30,583; (b) Sicilian Asphalt Paving Co., 41 Park Row, New York, $9,524; Continental Asphalt Paving Co., $10,548; Barber Asphalt Paving Co., $9,955; Uvalde Asphalt Paving Co., $10,141; (c) Sicilian Asphalt Paving Co., $20,984; Continental Asphalt Paving Co., $22,818; Barber Asphalt Paving Co., $21,794; Uvalde Asphalt Paving Co., $22,629; (d) Sicilian Asphalt Paving Co., $51,397; Continental Asphalt Paving Co., $67,207; Barber Asphalt Paving Co., $57,305; Uvalde Asphalt Paving Co., $56,579; Asphalt Construction Co., $62,302.

Bids were also received as follows for regulating and repaving with asphalt pavement on a concrete foundation the roadway of the following streets and avenues: (a) Amsterdam Ave., from the north side of 90th St. to 93d St., from 94th St. to 96th St., from 97th St. to 99th St., and from 106th St. to the north side of 117th St.; (b) Second Ave., from the south side of 83d St. to the south side of 94th St.: (a) Sicilian Asphalt Paving Co., $78,362; Barber Asphalt Paving Co., $82,433; Harlem Contracting Co., $83,358; (b) Sicilian Asphalt Co., $44,837; Barber Asphalt Paving Co., $55,138; Harlem Contracting Co., $51,249.

NEW YORK, N. Y.—Bids were received on Dec. 30 by John F. Ahearn, Pres. Boro. of Manhattan, for regulating and repaving with asphalt pavement on a concrete foundation the roadways of the following streets: (a) 82d St., from the west side of Second Ave. to the east side of Park Ave.; (b) 94th St., from the west side of Third Ave. to the east side of Park Ave.; (c) 95th St., from the west side of Second Ave. to the east side of Park Ave.; (d) 97th St., from the west side of Third Ave. to the east side of Park Ave.: (a) Sicilian Asphalt Paving Co., $16,392; Barber Asphalt Co., $18,031; Harlem Contracting Co., $18,267. (b) Sicilian Asphalt Paving Co., $9,193; Barber Asphalt Paving Co., $10,773; Harlem Contracting Co., $10,326. (c) Sicilian Asphalt Paving Co., $16,418; Barber Asphalt Paving Co., $18,904; Harlem Contracting Co., $18,-418. (d) Sicilian Asphalt Paving Co., $9,-578; Barber Asphalt Paving Co., $11,000; Harlem Contracting Co., $10,679.

HARRISON, N. J.—The Town Council has awarded the contract for paving a portion of William St. with bitulithic to VAN KEUREN & SON, of Jersey City, N. J., at $13,119.

JERSEY CITY, N. J.—Bids will be received Jan. 11 by the Board of Street and Water Commissioners, George T. Bouton, Clk., for furnishing material and improving Randolph Ave., requiring 1,814 sq. yds. of brick pavement.

PHILADELPHIA, PA.—The following bids were opened on Dec. 26 by Geo. R. Stearns, Dir. Dept. Pub. Wks., for repairing highways during the coming year: Edwin H.

Vare, Betz Bldg., $75,000; Cunningham & Murray, 1345 Arch St., $72,000; David McMahon, 7 East Chelton Ave., $69,000.

PITTSBURG, PA.—FRANK BRYAN, of McKees Rock, Pa., was awarded the contract by the county on Dec. 23 for improving Troy Hill extension No. 2 road a distance of 2-3 of a mile. George T. Barnsley is Ch. Road Engr.

SCRANTON, PA.—Bids were received as follows on Dec. 23 by the city for asphalt street paving: (a) Green Ridge St., between Dickson Ave. and Green Ridge St. bridge, (b) same street, between North Main Ave. and the bridge, (c) same street between North Washington Ave. and Dickson Ave., (d) Seventh St., between Railroad and Fourth Aves., (e) Quincy Ave., from Myrtle to Poplar Sts., (f) Webster Ave., from Pine to Ash Sts., (g) Sixth Ave., from West Lackawanna Ave. to West Linden St.: McDonald Construction Co., (a) $2.14 sq. yd., (b) same, (c) $2.19, (d) $2.35, (e) $2.25, (f) $2.14; R. C. Ruthven, (a) $2.15, (b) same, (c) same, (d) $2.20, (e) $2.15, (f) same, (g) $2.75; Barber Asphalt Paving Co., Mears Bldg., (a) $2.23, (b) $2.40, (c) $2.48, (d) $2.33, (e) $2.53, (f) $2.27.

Dale & Gaynor submitted the only bid for paving a portion of North Main Ave. with brick.

LYNCHBURG, VA.—H. L. Shaner, City Engr., is preparing plans for widening Tenth St. 10 ft., for which $3,000 has been appropriated. The new portion will be paved.

BENWOOD, W. VA.—Bids are asked until Jan. 12 by the Mayor for paving 3,000 yds. with either brick or blocks. John Blake is Chn. Council.

SAVANNAH, GA.—The Street and Lanes Committee has recommended that the City Council include an item of $65,689 in the 1909 budget for paving about five miles of streets with asphalt block and vitrified brick, and two small portions in West Side with granite block. Estimated total cost, about $184,020, portions of which will be paid by property owners and the Savannah Electric Co.

MOBILE, ALA.—Wright Smith, Engr., Mobile, will prepare plans and specifications for pavement and drainage of two of the main residential streets. Estimated cost, about $140,000. J. J. McMahon is Secy. Bd. of Pub. Wks. Noted last week.

HUNTSVILLE, ALA.—Bids are asked by the city until Jan. 19 for paving Clinton, Franklin and Randolph Sts. with granitoid, brick, asphalt, bitulithic and rubber mineral asphalt. R. E. Smith is Mayor.

VICKSBURG, MISS.—The city has awarded the contract to the SOUTHERN PAVING & CONSTRUCTION CO., Chattanooga, Tenn., for paving Clay St. with vitrified brick. Estimated cost, $22,909. P. M. Harding is Mayor.

CHATTANOOGA, TENN.—The Southern Paving & Construction Co., First National Bank Bldg., Chattanooga, has submitted the lowest bid to the Board of Public Service for paving 13th St., Hooke St., length about 1,325 ft.

The West Construction Co., 1001-1007 Market St., Chattanooga, is the lowest bidder at about $40,000 for paving Broad St., between Fourth and Ninth Sts., with asphalt and resurfacing balance with asphalt, vitrified brick to be used in gutters and between street-car tracks. H. F. Van Dusen is Chn. Bd.

CLEVELAND, OHIO.—Bids will be received until Feb. 3 by the County Commissioners, Cleveland, William F. Black, Clk., for grading, draining and improving Columbia road, between Dover and Olmstead Townships. A. B. Lea is County Surv.

EAST LIVERPOOL, OHIO.—RYAN & McLAUGHLIN, East Liverpool, have been awarded the contract by the city at $49,000, for grading, curbing and paving Pennsylvania and Sheridan Aves.

NOBLESVILLE, IND.—NEES & CO., Frankfort, Ind., have been awarded the contract by the county for the construction of 14,756 ft. of gravel road in Hamilton County, at $12,319.

ELI T. PICKARD, Kempton, Ind., secured the contract for 6,765 ft. of gravel road in Hamilton County, at $3,095.

MARION, IND.—Bids will be received by the County Commissioners, Marion, until Jan. 20, for constructing two gravel roads in Fairmount Township, 19,801 ft., township line between Fairmount and Jefferson Townships, 16,100 ft.; two gravel roads in Liberty Township, 19,840 ft.; brick pavement on South Mill, Sycamore and Madison Sts.; gravel road in Jefferson Township, 5,920 ft.; also, same time and place, for constructing Soldiers' Home Boulevard and 38th St. improvement, both in Center Township, grading and paving. A. Y. Stout is County Audr.

FOWLER, IND.—Bids are asked by the Commissioners of Benton County until noon, Feb. 12, for the construction of a county line gravel road 30,290 ft. in length. Lemuel Shipman is County Audr.

MARION, IND.—Bids will be received by the Commissioners of Grant County until 10 a. m., Jan. 16, for the construction of two gravel roads in Center Township; until 10 a. m., Jan. 20, for the construction of two roads in Fairmont Township, 15,781 and 4,020 ft. in length, respectively; two roads on township line between Fairmont and Jefferson Townships, 7,950 and 8,150 ft., respectively; one road in Jefferson Township, 5,920 ft.; two roads in Liberty Township, 15,000 and 4,840 ft., respectively, and brick streets in towns of Fairmount, 1,084 and 3,293 ft., respectively. A. Y. Stout is County Audr.

DETROIT, MICH.—Bids are asked until 2 p. m., Jan. 11, by the Department of Public Works for all artificial stone sidewalks and intersection walks required and ordered during year ending Jan. 31, 1910; also for natural stone walks, No. 1 and No. 2 cedar paving blocks and receiving basin stone, and until 10 a. m., same date, for 5,000 tons of 2-in. crushed stone for street paving, bank and river sand and bank gravel and 1-in. crushed stone, about 3,000 tons, for sidewalks and sliver surfacing.

Bids are asked until 2 p. m., Jan. 9, for furnishing paving cement (or tar) for year ending Jan. 31, 1910. J. J. Haarer is Comr.

NAPERVILLE, ILL.—Bids will be received until Jan. 18 by the Board of Local Improvements, P. E. Kroehler, Pres., for draining, grading, curbing, paving with macadam a system of streets, requiring approximately 13,640 ft. of 6 to 18-in. sewer pipe, 160 storm-water inlets, furnished and set; 36 manholes, 56,000 lin. ft. 5 x 20-in. concrete curb and 87,600 sq. yds. of macadam. W. S. Shields is Engr., 1201 Hartford Bldg., Chicago, Ill.

ALTON, ILL.—Bids will be received until Jan. 12 by E. Beall, Mayor, for brick paving on portions of Seventh, Alton, Fifth, Fourth and Alby Sts. Estimated cost, $37,000.

SUPERIOR, WIS.—The following bids were opened on Dec. 17 by the Board of Public Works for grading and bridging East Second St.: Swan Holmquist, $7,516; Peterson & Holm, $10,040; Lang & Skamser, $8,728.

ST. PAUL, MINN.—We are officially advised that no bids were received on Dec. 21 by the city for the improvement of Bald Eagle Lake Ave. L. W. Rundlett is City Engr.

EMPORIA, KAN.—Bids will be received until Jan. 18 for about 14,000 sq. yds. of brick paving on concrete foundation. Estimated cost, $30,000. Alva J. Smith is City Engr.

GRAND FORKS, N. DAK.—Bids will probably be called for in May for street paving here. Estimated cost, about $200,000. Tar macadam will probably be used. J. J. Smith, of Grand Forks, is Engr.

LITTLE ROCK, ARK.—The Chicago, Rock Island and Pacific R. R. Co. has awarded the contract for paving with brick the approaches to the East Second St. viaduct to I. P. SHELBY, of Little Rock, at $5,000.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported the estimated cost of the improvement of Fourth Ave. and Fourth Ave. South, from Washington St. to Madison St., by paving as follows: If vitrified brick be used, $56,000; if asphalt be used, $50,072; if sandstone blocks be used, $62,069; if granite blocks be used, $54,892; if wood blocks be used, $51,540.

The contract has been awarded to N. McKINNON for the improvement of 22nd Ave. S. W. by grading, at $5,853.

SACRAMENTO, CAL.—The lowest bid opened on Dec. 18 by the Board of Supervisors for constructing a macadam roadway with graded berms and concrete culverts along Upper Stockton road, a distance of 24 miles, was submitted by Cotton Bros., of San Francisco, at $56,412.

RICHMOND, CAL.—L. L. PAGE, of San Pablo, Cal., has secured the contract for paving the streets in the western portion of the city, including Santa Fe Ave., Delfino, Martina, Castro, Cottage and a portion of Standard Ave., at $27,655.

LEWISTON, IDAHO.—The contract for the Lewiston St. paving has been awarded by the city to the WARREN CONSTRUCTION CO., at $130,900.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

RUMFORD FALLS, ME.—The Oxford Paper Co., which is building an addition to its plant at Rumford Falls, for the manufacture of bleach liquor and caustic soda by an electrolytic process, has just closed a contract for the electric machinery. This apparatus is to be built by the WESTERN ELECTRIC CO., the power to be taken from the Rumford Falls Power Co.

NORTH BROOKFIELD, MASS.—The management of the Oxford Linen Mills has decided to erect a number of buildings at the plant. The buildings will be of concrete and will be operated by electricity.

WOONSOCKET, R. I.—It is stated that the Rathbun Knitting Co., of Woonsocket, will erect an addition for storage purposes. The structure will be 40 x 60 ft.

TORRINGTON, CONN.—The Turner & Seymour Co. has taken out a permit to construct a foundry plant of brick, 50 x 100 ft.

NEW YORK, N. Y.—Plans have been filed by McKim, Mead & White, 160 Fifth Ave., New York, for a 3-story brick and stone laundry building, 273.1 x43.8 and 87.8 ft., to be erected by the city at 29th St., 154.2 ft. east of First Ave. Estimated cost, $300,000.

Sloane & Moller, Archs., 316 East 65th St., have had plans prepared by Henry Ptacek, Arch., 316 East 65th St., for a 6-story brick and stone factory building, 100 x 80 ft. The structure will cost $40,000.

Plans have been filed for a 4-story car barn to be built by direction of Frederick W. Whitridge, Receiver for the Third Ave. R. R. Co., on the site of the old street car barn of the Forty-second St., Manhattanville & St. Nicholas Ave. horse car line on Manhattan St., east of Twelfth Ave. It will have a frontage of 114 ft. and a depth of 181 ft. and will be of brick with stone trimmings. The new building will cost $58,000. Nicholas Serracino, 1123 Broadway, is Arch.

NEW YORK, N. Y.—A. V. Porter, Arch., 621 Broadway, has filed plans for enlarging the 7-story cable house of the Metropolitan Street Ry. Co. on Lexington Ave., between 25th and 26th Sts., by the addition of a penthouse story, the improvement being made at a cost of $10,000. The building is to be used as a manufactory.

The Cutler Hammer Mfg. Co., 50 Church St., has purchased the block front, 97 x 157 ft., on the north side of 144th St. A 5-story factory building will be erected on the plot.

BUFFALO, N. Y.—We are advised that McCreary, Wood & Bradney, Archs., have no connection with the construction of a plant for the Auto-Car Equipment Co., as was erroneously stated last week.

BUFFALO, N. Y.—The New York State Steel Co., which has been in the hands of receivers for about a year, has been reorganized with a capital of $3,500,000, an increase of $1,000,000 preferred stock, which will be used principally to complete the company's blast furnace and auxiliary works located on the Buffalo River and the tracks of the D., L. & W. and the Buffalo Creek Terminal Ry.

ROCHESTER, N. Y.—The T. H. Symington Co., of Corning, N. Y., and Baltimore, Md., has selected a site in Lincoln Park, Rochester, on which it contemplates erecting a plant to manufacture journal bearings, ball-bearing center plates and miscellaneous malleable-iron castings. The cost of the plant, site, grading, etc., will be about $770,000. As soon as bonds amounting to $650,000 have been sold steps will be taken to construct the plant, plans for which have been prepared. E. John Nichols is Secy., Corning, N. Y.

ROCHESTER, N. Y.—Bids are asked until Jan. 11 by L. Adler Bros. & Co., clothing manufacturers, 92 St. Paul St., to erect a 4-story factory building, 202 x 275 ft., of reinforced concrete. Albert Kahn, 800 Trussed Concrete Bldg., Detroit, is preparing plans. There will be a main building and a boiler-house. No contracts have been let. Bids will be received in about three weeks. A part of the equipment needed follows: Engine plant, boilers, etc.; forced air ventilating and heating system; vacuum cleaners; electric lights. Cost, between $250,000 and $300,000.

BINGHAMTON, N. Y.—The Chenango Silk Company will prepare plans for a new plant. The company may rebuild here or elsewhere. The mill will be 150 x 150 ft. and three stories in height. The company has 160 looms.

LESTERSHIRE, N. Y.—The Board of Trustees has granted a building permit to the Lestershire Lumber & Box Co. to erect an addition to the factory on Laurel St. The addition will be 50 x 32 ft. and two stories high. It is said that work will be begun at once.

JOHNSTOWN, PA.—The Johnstown Stained Glass Co., William Heslop & Son, owners, will be incorporated this month, with a capital of $50,000, as the Johnstown Stained Glass Co., Inc. The company has purchased a site 28 x 130 ft. at 435 Lincoln St., where a 2-story manufacturing plant, equipped with the latest machinery will be built in the early spring. This building will be of brick and steel, and exclusive of machinery, will cost about $12,000. No contracts have been awarded.

SOMERSET, PA.—A party of capitalists headed by E. G. Nicely, of this place, have purchased a tract of 37 acres just outside the Borough Line, and will have plans prepared for a modern brewery, the construction of which will be brick, steel and concrete. An engineer will be selected to prepare the plans at once, and construction will be started in the spring. The brewery will cost about $35,000.

DONORA, PA.—The Donora Brewing Co. has awarded the contract for the addition to the brewery here to the DONORA LUMBER CO., of this city. The addition will house six additional fermentation tanks and equipment, and six additional chip casks and equipment, increasing the capacity 70%.

GREENSBURG, PA.—We are officially advised that the Wright Specialty Mfg. Co., of Greensburg, will erect a plant here. The site has not been chosen as yet. Charles Wright, 7 Broad St., South, Greensburg, is Vice-Pres. and Gen. Mgr.

GREENVILLE, PA. — The Wilkinson-Knupp Brass Co. has secured a tract of ten acres of land at East Ave. and the B. & L. E. R. R., and will start the erection of a modern plant at once for the manufacture of valves, fittings, faucets and pumps. Each of the first two buildings to be erected will be 60 x 100 ft. Other buildings will be built later.

ALLIANCE, PA.—Ground was broken for a large addition to the plant of the Central Silk Mfg. Co. at Alliance. The contractor is ELVIN ZELLNER, of Coplay, Pa. The addition will be 27 x 60 ft., and will be two stories high. As soon as the building is completed 50 looms will be installed.

WASHINGTON, PA.—Robert G. Reed, Gen. Mgr. of the Washington & Cannonsburg Street Ry. Co., has announced that an addition will be built to the present car barn, which is located near Washington. No plans have been prepared to date, and its construction will not be started before early in the spring. The construction of this line into Pittsburg has been completed with the exception of a part of the overhead work and the power-house, and the line will be placed in operation within the next month or so, with through cars to Pittsburg.

YORK, PA.—We are officially advised that the York Mfg. Co. has purchased an additional tract and will enlarge its plant. A machine shop, 100 x 230 ft., three stories high, having a floor space of 50,600 sq. ft. or more, will be erected, and about $100,000 will be expended in modern equipment. The contract for structural steel has been awarded to the YORK BRIDGE CO., of York. The balance of the work will be done by the owners.

NORFOLK, VA.—The Lynchburg Foundry Co., owning and operating the McWane Pipe Works at Lynchburg, Va., and the Radford Pipe Works at Radford, Va., has purchased 23 acres of land at Norfolk, with deep water frontage of 732 ft., and belt line railway connections, on which to build a pipe foundry for export and coastwise trade. Details of construction have not been announced. H. C. McWane is Pres.

CHARLOTTE, N. C.—The Chadwick-Hoskins Co. is reported that a corporation operating five cotton mills and about Charlotte, is considering the advisability of erecting, at an early date, small cotton yarn mill for the purpose of utilizing its waste. This plant probably will be built near the Chadwick and Hoskins mills, three miles west of the city. The Chadwick-Hoskins Co. operates approximately 100 spindles.

TRYON, N. C.—The Hosiery Co. of Tryon, N. C., has lost its plant, knitting and storing department by fire, the damage being about $... It will be rebuilt immediately, and completing the necessary arrangements for a new plant will be provided with machinery for a daily output of 2,000 dozen pairs of hose. F. S. Wilcox, Treas., is letting contracts for the new machinery.

ASHBORO, N. C.—The Hosiery Mills will at once build its new plant, located at Ashboro, N. C. The company has elected O. R. Cox Sec., Treas., and will build a 2-story brick structure, 90 x 100 ft., to be equipped with knitting machines and accompanying apparatus for the production of hosiery. A steam plant will be installed to drive the machinery. The daily output will be 1,000 dozen pairs of hose, and 60 operatives will be employed. The company is capitalized at $100,000. E. Walker is interested.

MEMPHIS, TENN.—C. Talz, Pres. of the Evansville (Ind.) Veneer Co., capitalized at $500,000, has purchased a tract of land in North Memphis on which the company will erect a factory for veneering. The company will continue to operate its plant at Evansville, but its headquarters will be removed to Memphis. It will build here its largest plant. The building is to be of red brick and will cost about $150,000.

WARREN, OHIO.—The Superior Iron & Steel Co., of Warren, has been incorporated by C. F Clapp, of Warren, O. E. Krueger and others, of Pittsburg, Pa., with a capital of $300,000, and will operate a plant here.

DAYTON, OHIO.—The Charles A. P. Barrett Paint Co., of this city, will build a paint factory soon. The company has increased its capital stock from $100,000 to $150,000. It is stated that the company will remove its factory from Troy, where it has been located for several years.

SHELBY, OHIO.—It is stated that the McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., has secured the contract to erect two buildings for the Ohio Seamless Tube Co., at Shelby, one to be 180 x 360 ft.

EVANSVILLE, IND.—The Evansville Packing Co. has ordered plans and will ask for bids soon for the construction of an addition to its packing house.

CHICAGO, ILL.—Eugene J. McVoy, Pres. of the McVoy Sheet Metal & Tin Plate Co., has secured a site on West 26th and Morgan Sts. on which he intends erecting a warehouse and manufacturing building to cost $20,000.

The Central Bedding Co. of Illinois, 402 Wabash Ave., has leased the ground on Center Ave., 700 ft. south of 35th St., 112 x 273 ft. The term of the lease is for 25 years. The grantors have agreed to erect a building containing 61,152 sq. ft. at a cost of $60,000.

The southeast corner of Indiana Ave. and 21st St. has been leased by the Stanley Steamer Co. from John P. Wilson. The lease is for ten years. A 2-story building to cost $18,000 is to be put up.

MANITOWOC, WIS.—Plans have been prepared for a 3-story addition to the plant of the Wisconsin Knitting Mills, Manitowoc, Wis.

ORANGE, TEX.—We are officially advised that the Yellow Pine Paper Co. will treble the present capacity of plant, giving it a daily output of 25 tons. Cost of improvements, including new machinery and additional buildings, about $150,000. E. S. Farwell, Consult. Engr., 300 Broadway, New York, has prepared plans. Frame buildings have been erected and estimates are being taken on the machinery.

HILLYARD, WASH.—The officials of the Great Northern Ry. Co. intend enlarging the shops here at a cost of about $200,000. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

SPOKANE, WASH.—The Spokane Paper & Pulp Co., capitalized for $1,000,000, is being organized by C. H. Pride, Pres. of the Tomahawk Paper & Pulp Co., at Tomahawk, Wis., and will erect a plant to cost $850,000 in Spokane early this spring, giving employment to 1,500 men. The pulp mill is to be located in northern Idaho. Mr. Pride states that there is sufficient raw material in the vicinity of Spokane to supply ten mills for at least 100 years.

SEATTLE, WASH.—The Olympic Plaster Co. has secured the site at Ninth Ave. and South and Stevens Sts. on which to erect a factory.

H. B. Luby, Mgr. of the Seattle Ice Co., has announced that work will commence at once on excavation at cost of about $300,000. The building will be 180 x 150 ft. and will be of concrete. Capacity, 300 tons.

VANCOUVER, B. C.—Honeyman & Curtis, Archs., Molson Bank Bldg., this city, have prepared plans for the erection of the Canadian General Electric Co.'s building to be built on Pender St. West at a cost of $50,000. The offices of the Canadian General Electric Co. are at Peterboro, Ont.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

DREDGE.—Toronto, Ont.—Bids are asked until noon, Jan. 19, by Joseph Oliver, Mayor and Chn. Bd. of Control, for constructing a hydraulic dredge complete.

*FENCE.—Prescott, Ariz.—Bids are asked until 3.30 p. m., Feb. 8, by K. P. Williams, 1st Lieut. and A. Q. M., for construction of post fence at Whipple Barracks Ariz.

CEMENT.—Detroit, Mich.—Bids are asked by J. J. Hsarer, Comr. Dept. Pub. Works, Detroit, until 10 a. m., Jan. 11, for furnishing 20,000 bbls. of Portland cement.

CEMENT.—Plymouth, Mass.—Bids are asked until Jan. 25 by the Co. Comrs. for furnishing and delivering 2,500 bbls. of Portland cement in carload lots, in cloth, f. o. b. cars Plymouth. Walter H Faunce is Chn.

DITCH.—Des Moines, Iowa.—Bids are asked until Jan. 18 by the Board of Supervisors at Des Moines for excavation and construction of drainage ditch in Drainage District No. 6, consisting of about 37,421 cu. yds. of excavation. Lew. Burnett is County Audr.

CEMENT.—Ottawa, Ont.—Bids are asked until 4 p. m., Jan. 29, by L. K. Jones, Secy. Dept. Ways and Canals, Ottawa, for furnishing 12,000 bbls. cement, for construction and maintenance of the various canals of the Dominion, and to be delivered in such quantities and places as directed.

DITCH.—Lake Charles, La.—Bids are asked until Jan. 9 for the construction of a drainage ditch about two miles long, 30 ft. wide, in Iowa Drainage District; about 75,000 cu. yds. excavation. Cost, $15,000. H. C. Chalkley, Advisory Member; T. H. Mandell, of Lake Charles, is Engr.

TRAVELING CRANES.—Grand Rapids, Mich.—Bids are asked at the office of the Board of Public Works until Jan. 7 for furnishing, also furnishing and erecting one 3-ton, two 4-ton and one 6-ton hand operating traveling cranes for sewage pumping stations. William M. Gormley is Pres.

DITCH.—Ft. Dodge, Iowa.—Bids are asked until Jan. 15 by the Board of Supervisors of Webster County at the office of J. L. Hanrahan, County Audr., Ft. Dodge, for constructing 38,800 ft. of open ditch and drain, with 142,000 cu. yds. of excavation, in Webster County Drainage District No. 37, Dayton and Lost Grove Townships.

CANAL SUPPLIES.—St. Catharines, Ont.—Bids are asked until 4 p. m., Jan. 16, by the Superintending Engineer, Welland Canal, St. Catharines, for the furnishing and delivering of supplies, including lumber, castings, etc., for use on the Welland Canal and its branches during the year 1909. L. K. Jones is Secy. Dept. of Railways and Canals, Ottawa, Ont.

DITCH.—Logan, Iowa.—Bids are asked until Feb. 10 by the Auditor of Harrison County at Logan for constructing a ditch in Boyer Subdistrict No. 1, of Pottawattamie-Harrison Drainage District, known as Logan extension, and estimated to cost $52,000. Seth Dean is Engr.-in-Charge; M. Palmer, Superv. Pottawattamie County; F. G. McEwen, of Woodbine, Superv. Harrison County.

DITCHES.—Webb City, Iowa.—The Board of Supervisors has awarded the following ditch contracts: For the construction of the Gilbert ditch in Williams Township, to JACOB ANDERSON, at $4,898; the Flynn ditch in Fremont Township, the TUSCOLA CO., $11,796;the Woods ditch in Blairsburg and Williams Townships, the TUSCOLA CO., $16,164; the Pettinger ditch in Liberty Township, the TUSCOLA CO., $7,524.

DITCH.—Burlington, Iowa.—Bids were received on Dec. 29 by the Joint Board of Supervisors of Louisa County and Des Moines County, Louisa-Des Moines Drainage District No. 4, at the office of Dan. P. Hill, Auditor of Des Moines County, Burlington, for constructing an open ditch (22,000 cu. yds.) known as the Gates-Iowa Drain. Contract was awarded to R. H. WILLIAMS, Mattoon, Ill., at 17½ cts. per cu. yd. The Harman Engineering Co., Peoria, Ill., is Engr.

DRAIN.—Urbana, Ill.—Bids are asked until 2 p. m., Jan. 15, by the Drainage Commissioners of Kankakee Drainage District in the County of Champaign, Ill., for furnishing, hauling and laying the following first-class farm drain tile: 2,223 ft. of 22-in. tile; 4,244 ft. 20-in. tile; 5,433 ft. 18-in. tile, 725 ft. 16-in. tile. Also backfilling the trench after the work has been received. Also building one bulkhead or retaining wall. Profiles and plans may be seen at office of Wm. B. Weber, Urbana, Ill., or at the office of Wm. J. Day, Engr., Bement, Ill.

AMMUNITION HOISTS.—Washington, D. C.—Bids were received as follows Dec. 31, at the office of the Chief of Engineers, War Department, Washington, for 63 ammunition hoists of the following sizes: (a) type "A" for 12-in. gun; (b) type "B," (c) type "C," (d) type "A" for 10-in. gun (e) type "C" for 10-in. gun.: Long Arm System Co., Cleveland, Ohio, (a) $1,188; (b) $1,064; (c) $1,144; (d) $1,224; (e) $1,144. F. J. Richards Mfg Co., (a) $775; (b) $775; (c) $800; (d) $765; (e) $800. Bergen Point Iron Works, New York, (a) $764; (b) $824; (c) $709; (d) $787; (e) $739. Conveying Machinery Co., New York, (a) $906; (b) $866; (c) $1,045; (d) $1,099; (e) $1,023. New Jersey Foundry & Machinery Co., (a) $945; (b) $895; (c) $1,300; (d) $950; (e) $1,300. Dietrich Bros., Baltimore, (a) $728; (b) $718; (c) $868; (d) $748; (e) $893. Detroit Hoisting & Machinery Co., Detroit, Mich., (a) $2,750; (b) $2,250; (c) $2,600; (d) $2,750; (e) $2,600. Greenley Wyatt & Co., New York, (a) $1,145; (b) $1,000; (c) $1,520; (d) $1,125; (e) $1,520. Modern Steel Structural Co., Waukesha, Wis., (a) $1,188; (b) $1,225; (c) $1,172; (d) $1,078; (e) $1,172. Atlanta Machine Works, Atlanta, Ga., (a) $900; (b) $930; (c) $712; (d) $975; (e) $712. Hoisting Machinery Co., New York, (a) $885; (b) $905; (c) $1,309; (d) $8..; (e) $1,309. Cleveland Crane & Engineering Co., Cleveland, Ohio (a) $983; (b) $830; (c) $950; (d) $983; (e) $950.

CONTRACT PRICES.

[Where * precedes item under Contract Prices, the work was advertised in Engineering News.]

*SEWAGE DISPOSAL PLANT.—Oxford, Ohio.—Bids were received on Dec. 22 by D. P. Beaton, Village Clk., for constructing a sewage disposal plant, consisting of sedimentation tank, filter beds, automatic distributing machinery and controlling house. Riggs & Sherman are Engrs., Toledo, Ohio. Bids in detail were as follows: (A) F. M. Benner & Co., Marion, Ind.; (B) Emanuel L. Schneider, 420 West Liberty St., Ann Arbor, Mich.; (C) Thos. P. Strack, Goodall Bldg., Cincinnati, Ohio.

	(A)	(B)	(C)
PLAN "C."			
Trunk sewer:			
640 ft. 12-in. vitrified sewer pipe	$0.80	$0.80	$2.00
685 ft. 15-in. vitrified sewer pipe	.97	.90	2.25
Sedimentation tank; aerating channel; controlling house:			
540 cu. yds. grading	.40	.40	1.00
200 cu. yds. concrete	7.50	6.70	8.00
1,600 lbs. cast iron	.03	.06	.05
1,500 lbs. wrought iron and steel rods	.06	.07	.05
1 12-in. sluice gate	85.00	65.00	200.00
2 15-in. valves	100.00	38.00	100.00
1 18-in. valve	110.00	66.00	150.00
Frame building	260.00	400.00	2,000.00
Automatic siphons (Pacific, 1,000; Merritt, 700)	700.00	1,225.00	2,000.00
Filters and sludge bed:			
3,365 cu. yds. grading and embankment	.44	.30	.60
660 ft. 15-in. vitrified sewer pipe	.57	.40	2.25
88 ft. 12-in. vitrified sewer pipe	.45	.30	2.00
10-in. vitrified sewer pipe	.35	.22	1.75
446 ft. 8-in. vitrified sewer pipe	.20	.14	1.50
1,500 ft. 6-in. vitrified sewer pipe	.12	.12	1.25
1,500 sq. yds. sodding	.30	.20	.25
1,500 sq. yds. seeding	.10	.10	.10
6,000 ft. B. M. lumber in carriers	45.00	120.00	333.33
5 cu. yds. concrete in outlet	7.10	6.70	8.00
1,373 cu. yds. gravel, filters and sludge bed.	1.50 local 1.95 shipped	1.70	2.00
2,853 cu. yds. sand, filters and sludge bed.	1.50 local	1.80	2.00
Totals	.....	.....	27,699
PLAN "B"			
Trunk sewer:			
640 ft. 12-in. vitrified sewer pipe	.80	.80	2.00
3,612 ft. 15-in. vitrified sewer pipe	.87	.90	2.25
Sedimentation tank; aerating channel; controlling house:			
765 cu. yds. grading	.40	.40	1.00
200 cu. yds. concrete	7.50	6.70	8.00
1,600 lbs. cast iron	.03	.06	.05
1,500 lbs. wrought iron and steel rods	.06	.07	.05
1 12-in. sluice gate	85.00	65.00	200.00
2 15-in. sluice gates	100.00	38.00	100.00
1 18-in. valve	110.00	66.00	150.00
Frame building	260.00	400.00	2,000.00
Automatic siphons (Pacific, 1,000; Merritt, 700)	.....	1,225.00	2,000.00
Filters and sludge bed:			
2,700 cu. yds. grading and embankment	.44	.30	.60
355 ft. 15-in. vitrified sewer pipe	.57	.40	2.25
60 ft. 12-in. vitrified sewer pipe	.45	.30	2.00
420 ft. 8-in. vitrified sewer pipe	.20	.14	1.50
1,800 ft. 6-in. vitrified sewer pipe	.12	.12	1.25
1,500 sq. yds. sodding	.30	.20	.25
1,500 sq. yds. seeding	.10	.10	.10
6,000 ft. B. M. lumber in carriers	85.00	120.00	333.33
5 cu. yds. concrete in outlet	7.10	6.70	8.00
1,373 cu. yds. gravel, filters and sludge bed.	1.50	1.70	2.00
2,893 cu. yds. sand, filters and sludge bed.	1.50	1.80	2.00
1 concrete arch bridge	632.00	806.00	1,000.00
250 cu. yds. sewer embankment	.55	.30	.75
Brick masonry	12.00	.....	.....
Time limit	6-30-09	6-1-09	7-1-09
Totals	$17,667	$18,904	$34,892

*SEAWALL.—Fort Morgan, Ala.—Bids were received as follows by Maj. H. Jervey, Corps Engrs., U. S. A., Mobile, on Dec. 24, for construction of seawall at Fort Morgan: (A) Richard M. Murphy, New Orleans, La.; (B) Charles Clarke & Co., Galveston, Tex.; (C) Robert C. Storrie, Pensacola, Fla.; (D) W. C. Spotswood, Mobile, Ala.; (E) Christie & Lowe, New Orleans, La.; (F) Blackstaff Engineering Co., Philadelphia, Pa.; (G) Charles G. Ollinger, Mobile. Itemized prices were as follows:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
6,700 cu. yds. concrete	$6.16	$7.19	$6.40	$7.50	$7.00	$6.50	$7.30
38,500 short tons riprap hand placed	3.85	3.96	4.00	4.00	3.00	3.30	4.06
27,500 cu. yds. excav.	.40	.45	.45	.30	.40	.45	.30
1,908 M. ft. B. M. sheet piling	35.00	37.00	32.50	40.00	40.00	45.00	35.00
1,600 lin. ft. round piling	.20	.45	.50	.70	.40	1.00	.25
200 lin. ft. vit. pipe	.15	.30	.50	.40	.40	1.00	.50
Extra cement, per bbl.	2.50	2.15	2.50	2.10	2.50	2.00	2.10
Total	$267,627	$284,384	$272,181	$290,020	$250,440	$270,635	$280,750

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—

Pittsburg, f. o. b. cars—Angle bars, 1.65 to 1.75 cts.; spikes, standard sizes, 4½ x 9-16-in., at 1.70 cts. and smaller sizes at 1.80 cts. In carload and larger lots, with an advance of 5 cts. per 100 lbs. for less than carload, f. o. b. Pittsburg; bolts, square nuts, 2.65 to 2.75 cts.; hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; standard, second quality, $27 to $28; light sections, 12 to 14 lbs., $34 to $36; Per gross ton—Heavy melting steel scrap, $13 to $13.50; old steel rails, rerolling lengths, $15 to $15.50; relaying rails, $23 to $24; old iron rails, $18 to $18.50. Pittsburg—Standard sections, at mill, $28; standard, second quality, $27 to $28; light rails, 25 to 45-lb. sections, $25; 20-lb., $26; 16-lb., $27; 12-lb., $28.

STRUCTURAL MATERIALS—

Pittsburg, f. o. b. mill—Beams and channels, 3 to 15-in., inclusive, 1.60 cts., net; I-beams over 15-in., 1.70 cts., net; angles, 3 to 6-in., inclusive, ¼-in. and up, 1.60 cts., net; angles, over 6 ins., 1.70 cts., net; angles, 3 x 3 ins. and up, less than ¼-in., 1.50 cts., base, half extras, steel bar card; tees, 3-in. and up, 1.65 cts., net; zees, 3-in. and up, 1.60 cts., net; angles, channels and tees under 3-in., 1.50 cts., base, half extras, steel bar card; deck beams and bulb angles, 1.90 cts., net; hand rail tees, 3 cts., net; checkered and corrugated plates, 3 cts., net.

Chicago—at mill—Beams and channels, 3 to 15-in., inclusive, 1.78 cts.; angles, 3 to 6-in., ¼-in. and heavier, 1.78 cts.; angles larger than 6-in., 1.88 cts.; beams, larger than 15-in., 1.88 cts.; zees, 3-in. and over, 1.78 cts.; tees, 3-in. and over, 1.83 cts.

New York—at tidewater—Beams, channels, angles and zees, 1.76 cts.; tees, 1.81 cts.; on beams, 18 to 24-in., and angles over 6-in., the extra is 0.10 cts.

PLATES AND SHEETS—

New York—at tidewater—Standard-sized plates—Sheared plates, 1.76 cts. to 1.86 cts.; flange plates, 1.86 cts. to 1.96 cts.; marine plates, 2.16 cts. to 2.26 cts.; fire-box plates, 2.65 cts. to 3.50 cts., according to specifications.

Pittsburg—mill shipment—Tank plates, ¾-in. thick, 6¼ ins. up to 100 ins. wide, 1.60 cts., base; blue annealed sheets, No. 10 and heavier, 1.80 cts.; Nos. 11 and 12, 1.85 cts.; Nos. 13 and 14, 1.90 cts.; Nos. 15 and 16, 2 cts. Box annealed, Nos. 17 to 21, 2.25 cts.; Nos. 22 to 24, 2.30 cts.; Nos. 25 and 26, 2.35 cts.; No. 27, 2.40 cts.; No. 28, 2.50 cts.; No. 29, 2.60 cts.; No. 30, 2.70 cts.; galvanized sheets, Nos. 10 and 11, 2.45 cts.; Nos. 12 and 14, 2.55 cts.; Nos. 15 and 16, 2.65 cts.; Nos. 17 to 21, 2.80 cts.; Nos. 22 and 24, 2.95 cts.; Nos. 25 and 26, 3.15 cts.; No. 27, 3.35 cts.; No. 28, 3.55 cts.; No. 29, 3.70 cts.; No. 30, 3.95 cts.

IRON—

Pig Iron:

At New York—tidewater—	
Northern—	
No. 1 foundry	$17.00 to $17.50
No. 2 foundry	16.75 to 17.25
No. 2 plain	16.25 to 16.75
Gray forge	15.50 to 15.75
Basic	16.75 to 17.00
Virginia—	
No. 1 foundry	17.10 to 18.15
No. 2 foundry	16.65 to 17.60
Basic	16.60 to 17.10
Southern—	
No. 1 foundry	17.50 to 17.75
No. 2 foundry	17.25 to 17.50
No. 3 foundry	16.75 to 17.25
No. 4 foundry	16.25 to 16.50
No. 1 soft	17.25 to 17.50
No. 2 soft	17.25 to 17.50
Gray forge	15.75 to 16.25
Mottled	15.50 to 16.00
At Chicago—f. o. b.—	
Lake Superior charcoal	$19.50 to $20.00
Northern—	
Coke foundry, No. 1	17.50 to 18.00
Coke foundry, No. 2	17.00 to 17.50
Coke foundry, No. 3	16.50 to 17.00
Scotch, No. 1	18.00 to 18.50
Southern—	
Coke, No. 1	17.85 to 18.35
Coke, No. 2	17.35 to 17.85
Coke, No. 3	16.85 to 17.35
Coke, No. 4	16.35 to 16.85
Coke, No. 1, soft	17.85 to 18.35
Coke, No. 2, soft	17.35 to 17.85
Gray forge	15.85 to 16.35
Mottled	15.60 to 16.10
Malleable Bessemer	17.00 to 17.50
Standard Bessemer	17.90 to 18.40
Jackson County and—	
Kentucky Silvery, 6%	19.90 to 20.40
Kentucky Silvery, 8%	20.90 to 21.40
Kentucky Silvery, 10%	22.90 to 23.40
At Philadelphia—	
Eastern Pennsylvania—	
No. 2 X Foundry	$17.25 to $17.50
No. 2 Plain	16.75 to 17.00
Virginia—	
No. 2 X foundry	17.25 to 17.75
No. 2 Plain	17.00 to 17.25
Gray forge	16.00 to 16.50
Basic	16.75 to 17.00
Low Phosphorus	21.50 to 21.75
At Pittsburg—	
Prices all f. o. b. Pittsburg—	
No. 2 foundry	$16.40 to $16.65
Gray forge	14.30 to 14.50
Bessemer iron	15.65 to 15.75
Ferromanganese	43.95 to 44.45
Ferrosilicon	63.00

Cast-iron Pipe:

New York—Carload lots, net tons, 6-in., at tidewater, $24.

Chicago—4-in. water pipe, $27; 6-in. to 12-in., $26; over 16-in., $25, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Copper:

Lake, 14.50 to 14.62½ cts.; electrolytic, 14.12½ to 14.37½ cts.; casting, 14 to 14.25 cts.

Lead: New York, spot, 4.17½ cts.

Spelter: New York, spot, 5.12½ to 5.17½ cts.

Tin: New York, spot, 28.75 to 29.05 cts.

CIVIL SERVICE EXAMINATIONS.

CITY ENGINEER.—Calgary, Alta., Canada.—Applications will be received by the Commissions of the City of Calgary for the position of City Engineer for this city, up to and including Jan. 20. Applicants are to furnish references and state experience respecting sewers, water-works, street paving and concrete sidewalks, etc. Applicants to state salary required. Services to commence on Feb. 15 or before if possible. H. E. Gillis is City Clk.

INSPECTOR OF HULLS.—Galveston, Tex.—The U. S. Civil Service Commission announces an examination on Feb. 3-4, to secure eligibles from which to make certification to fill a vacancy in the position of Local Inspector of Hulls of Steam Vessels, $1,500 a year, in the Steamboat-Inspection Service, Galveston, Tex., and vacancies requiring similar qualifications as they may occur in that service throughout the United States. Age limit, 25 to 55 years. Application Forms 1087 and 1405.

CIVIL AND HYDRAULIC ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 3 to secure eligibles from which to make certification to fill vacancies in the position of Engineer in the Reclamation Service at salaries ranging from $175 to $350 a month. These positions are for service in the western part of the United States. Competitors will not be assembled for any of the tests. The positions to be filled require the exercise of talent in design and ripe experience in construction and administration. Age limit, 28 to 50 years. Application Form 304 and special form. Applications must be filed prior to closing hour on Feb. 3.

For other Proposal Advertisements see pages 43, 44, of Advertisements and Construction News page 8.

BRIDGE SUPERSTRUCTURES.

THE SANITARY DISTRICT OF CHICAGO.

TO CONTRACTORS.

Sealed proposals addressed to the Board of Trustees of the Sanitary District of Chicago, and endorsed, "Proposals for the superstructures of C. & N. W. Ry. Bridges," will be received by the Clerk of the said Sanitary District at the offices of the said District, on the fifteenth floor of the American Trust Building, Chicago, Illinois, until 12 M., Standard time, on Wednesday, January 20, 1909, and will be publicly opened by the Board of Trustees at a meeting to be held on that day, or the first meeting thereafter.

The work for which said tenders are invited consists of the fabrication, erection and completion of the superstructures of two railroad bridges crossing the North Shore Channel of the Sanitary District of Chicago, more particularly described as follows:

A railroad bridge for the Mayfair cut-off of the Chicago and Northwestern Railway Company, in Township of Niles, County of Cook, State of Illinois, to be completed on or before September 15, 1909.

A railroad bridge for the Milwaukee Division of the Chicago and Northwestern Railway Company, at Grant Street in the City of Evanston, County of Cook, State of Illinois, to be completed on or before September 15, 1909.

The said work is to be performed in accordance with plans, specifications and

contract furnished by The Sanitary District of Chicago, which plans, specifications and contract may be obtained upon application at the said office of the said District.

The construction of each bridge will be awarded under a separate contract. Each bid shall be accompanied by a certified check, or cash, to the amount of Two Thousand ($2,000.00) Dollars for the bridge for the Mayfair Cut-off, and to the amount of One Thousand ($1,000.00) Dollars for the bid on the bridge for the Milwaukee Division of said C. & N.-W. Ry. Co.

Alternative bids may be made upon both bridges, based upon the provision that the contracts for both bridges shall be awarded to the one bidder. In such case no deposit will be required other than the sume hereinabove required to be deposited with the bids for the respective bridges.

All certified checks must be drawn on some responsible bank doing business in the City of Chicago, and shall be made payable to the Clerk of The Sanitary District of Chicago. Said amounts deposited with bids, shall be held by The Sanitary District until all of the respective bids for said structures have been canvassed and the contracts awarded and signed. The return of said check or cash, deposited with bid upon either of said bridges, to the bidder to whom the contract for such bridge is awarded will be conditioned upon his appearing within ten (10) days after receiving notice of such award, with bondsmen, and executing a contract with the Sanitary District for the work so awarded, and giving a bond, satisfactory to the Board of Trustees, for the fulfillment of said contract in the amount of Twenty Thousand ($20,000.00) Dollars for the bridge for the Mayfair Cut-off, and in the amount of Ten Thousand ($10,000.00) Dollars for the bridge for the Milwaukee Division of said C. & N.-W. Ry. Co.

A deposit of Ten ($10.00) Dollars in cash, or a certified check for that amount will be required for each set of plans and specifications taken out, the said sum of Ten ($10.00) Dollars to be refunded by the said Sanitary District upon the return of the said plans and specifications to said District, provided they are returned on or before February 10, 1909.

All bids must be upon blank forms furnished by the Sanitary District.

Bidders are required to state in their bids their individual names and places of business in full.

The said Board of Trustees reserves the right to reject any and all bids.

THE SANITARY DISTRICT OF CHICAGO,
By ROBERT R. McCORMICK,
President of Its Board of Trustees.
Attest:
I. J. BRYAN, Clerk.
Chicago, January 6, 1909.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of a sewer known as the Southern Outfall Sewer, Section "F," Contract No. 20 of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, Jan. 22, 1908.

The work will consist mainly of building a reinforced concrete sewer 12 ft. in diameter, about 244 ft. long, including about 3,630 cu. yds. of concrete and 236,000 lbs. steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Section "F" Southern Outfall Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

WATER PIPE AND APPURTENANCES.

Lyndhurst, N. J.

Sealed proposals endorsed "Proposals for Water Pipe and Appurtenances" will be received by the Township Committee of the Township of Union, Bergen Co., N. J., until 8:30 P. M., Monday, January 18th, 1909, at Odd fellows' Hall, Lyndhurst, N. J., for materials approximately as follows:

1,750 feet 10-inch Bell & Spigot Cast-iron Water Pipe.
5,000 feet 6-inch Bell & Spigot Cast-iron Water Pipe.
8,000 feet 4-inch Bell & Spigot Cast-iron Water Pipe.
3 10-inch gate valves.
11 6-inch gate valves.
33 4-inch gate valves.
20 Fire Hydrants.

Each bid must be accompanied by a certified check to the order of "The Township of Union, in the County of Bergen" for $100.

Specifications may be examined, and detail information obtained, at the office of R. M. Watson, Township Engineer, 90 Park Avenue, Rutherford, N. J.

Bidders are requested to have a representative present at opening of bids at above time.

The Township Committee reserves the right to reject any and all bids, or to accept any part of a bid.

JOHN F. WOODS,
Township Clerk.

Situations Wanted

Bridge and Structural Engineers.

BRIDGE AND STRUCTURAL ENGINEER (Cornell) in bridge dept. of large railway, desires executive position; thoroughly experienced in design, shop practice and construction of bridges, viaducts, draw spans, buildings and reinforced concrete. Address "Z. A. 1," Engineering News, New York. 1-2t

Draftsmen.

DRAFTSMAN, experienced in steel mill building design and general industrial plant extension, at present employed, desires to change; technical education. Address "M. A. 1," Engineering News, New York. 1-1t

STRUCTURAL and Mechanical Draftsman, seven years' experience in bridge, including bascule bridges, mill and building work; blast furnace, boiler, engine and automatic machinery, seeks position. Technical education and practical shop experience. Address "W. A. 1," Engineering News, New York. 1-2t

DRAFTSMAN; detailing, checking and estimating; five years' experience in structural and ornamental iron for buildings. Address "R. A. 1," Engineering News, New York. 1-1t

ASST. ENGINEER, age 29; six years' experience in charge of street, pipe line, subdivision, topographical and land surveys; good plain draftsman; new transit; can invest. Address "C. B. 1," Engineering News, New York. 1-5t

STRUCTURAL DRAFTSMAN, experienced in steel mill building design and with some experience in bridge design, desires to change. Thoroughly understands the theory of bridge design; can find the stresses in all common structures and has a knowledge of higher structures. Address "L. A. 1," Engineering News, New York. 1-2t

Superintendents, Misc., etc.

MAN, thirty-five years of age, with eight years' experience in and near New York City, contracting for himself, desires a position; have a large plant which can be furnished with his services; will consider renting the plant, which comprises steam shovel locomotives, rail, cars, crusher, engine, bins, boilers, hoisters, derricks, drills, pumps, etc. Address "P. A. 1," Engineering News, New York. 1-1t

CONTRACTOR'S ENGINEER or Superintendent, aged 33, Asso. Mem. Am. Soc. of C. E., desires position; thirteen years' experience in municipal, railroad, bridge construction and foundations. Address "S. A. 1," Engineering News, New York. 1-4t

AS WORKS MANAGER, with free hand; no other position considered; hold similar position at present. Address "B. B. 1," Engineering News, New York. 1-2t

ENGINEER SALESMAN wants new position; Cleveland district preferred. Address "X. A. 1," Engineering News, New York. 1-5t

Mechanical Engineer General Superintendent

Sixteen years' broad practical experience industrial plants, clam shell, dipper dredges, hydraulic types; 12 to 36-inch pumps, steam shovel, locomotives, pumps, hoisting engines, derricks, cranes, boilers, tugboats, stone crushing and conveying machinery; large experience execution extensive contracts, stone-crushing, dredging and mining; experienced systematizer, cost reducer and make it pay, producing economical results; capable designing special plants, any work; prefer salary and percentage profits; have the proofs and A1 references. BOX 33, 1176 Fox St., New York. 1-tf

Situations Open

WANTED—Mechanical Draftsman with experience on boiler work. John Bogart, 141 Broadway, New York. 1-1t

Miscellaneous Wants

PITTSBURG ENGINEER desires agency for first-class specialties or to represent responsible concern. Address "A. B. 1," Engineering News, New York. 1-2t

Can You Control $10,000 or Promote a Company?

The advertiser has a proposition in contracting machinery that is a labor saver and there is absolutely no competition.

The machine will transfer earth as gathered by the largest wheel or buck scrapers onto wagons at a cost of two-thirds of a cent a cubic yard and will eliminate long scraper hauls and hand shoveling.

Address 3338 17th St., N. W., Washington, D. C. 1-2t

CONTRACTORS

with the necessary plant wish to get a contract to build steam or electric railways on a 4% basis. Best references, connection with first class financial people. Address "P. 1," Engineering News, New York. 1-2t

WANTED.

Second-hand, No. 4

Gates Crusher

Style D. State condition and price. Address F. W. SCHMIDT, Morristown, N. J. 1-4t

FOR SALE

SPECIAL

FOR SALE OR RENT.

1 Lambert 8¼ × 10 DCDD Boiler and Swinging Gear.
1 Lidgerwood 8¼ × 10 DCDD Skat. with Swinging Gear.
1 Lidgerwood 7 × 10 DCDD Boiler and Swinging Gear.
1 Acme Crusher 10½ × 22, thoroughly overhauled.
1 Vulcan 45-ton shovel, fine shape.
Avling-Porter 10-ton roller.
Meade-Morrison cableways, 300′ span.
Lidgerwood 7 × 10 portable sewer outfit. Complete with housing.

A. B. C. EQUIPMENT COMPANY,
1 Madison Avenue, New York.
Telephone 1740 Gramercy.
1-1t Send for Catalog.

RELAYING **RAILS** NEW

Frogs and Switches.
Railway and Contractors' Equipment.
HYDE BROTHERS & COMPANY,
Commonwealth Bldg., Pittsburg, Pa. 141 Broadway, New York, N. Y.

FOR SALE

One straight line steam driven air compressor, 19″ steam cylinder, [illegible]″ air cylinder, 24″ stroke, in good order.

One straight line steam driven air compressor, 16″ steam cylinder, [illegible]″ air cylinder, 18″ stroke, in good order.

One straight line steam driven air compressor, 14″ steam cylinder, 14″ air cylinder, 14″ stroke, first-class condition, practically new.

One cross compound belt driven air compressor, 20″ low pressure cylinder, 12″ high pressure cylinder, 14″ stroke, complete with intercooler, first-class condition, practically new.

These compressors were made by the McKiernan Drill Company; they were too small for our work, and we are replacing same with larger compressors made by these same people.

F. W. SCHMIDT
MORRISTOWN, N. J.
1-4t

James A. Freeman's Sons, Auctioneers
1229 Chestnut St., Philadelphia, Pa.

RECEIVER'S SALE IN BANKRUPTCY
at Beverly, N. J.

Thursday, January 28, 1909, at 11 A. M.
By order of the District Court of the United States for the Dis. of New Jersey. Cause 2486. Est. ELBA IRON MANUFACTURING CO., alleged bankrupt.

VALUABLE
Structural Steel and Boiler Plant
OF THE
ELBA IRON MANUFACTURING CO.
THE
Real Estate, Machinery
TOOLS AND STOCK AT
Beverly, N. J.

☞ **A complete Plant near Philadelphia, Pa., for manufacturing Structural Steel, Boiler, Tank, Tower and Stack Work,** equipped to **work plate up to and including ⅝ inches thick. Capacity 2000 tons yearly. Catalogues on application to the Auctioneers.**

By order of WILLIAM NEES, Receiver; WM. T. WHEELER, Esq., Atty., Commonwealth Bldg., 12th & Chestnut Sts., Philadelphia, Pa. 1-3t

FOR SALE.
1,000 feet of 26-inch
RIVETED PIPE
in 12-ft. lengths; can be joined together and used for smoke stacks, sand sucker or sand dryer. For further information inquire HURWITZ BROS. IRON & METAL CO., Syracuse, N. Y. 1-1t

$1350 WILL BUY
Outfit, Consisting of
VULCAN 9 × 14″ Four Driver Saddle Tank Locomotive, 36″ gage; steam brakes; built 1902. Six WESTERN 4 yd., 2 way, 36″ gage diamond frame Dump Cars, 1906 Model. Shipment from Spring Grove, Pa.
JOHN B. WATSON.
Drexel Bldg., Philadelphia, Pa.
My Pamphlet No. 44 contains 12 pages bargains in good released plant. 1-1t

FOR SALE.
4 Blake Crushers
13 × 30, made by Farrel Foundry & Machine Co. Address ROCKLAND LAKE TRAP ROCK CO., 299 Broadway, New York. 1-4t

FOR SALE

All-steel Office, Camp and Tool Car. Contains office, sleeping, kitchen and work bench accommodations, photographic dark room, toilet, cupboards and tool lockers with train line connection for pneumatic tools. Particularly adapted for use of Supt. of Construction on new work. Plans and photographs on application. Address,

GOODWIN CAR CO.
17 BATTERY PLACE 1-4t NEW YORK CITY

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